

Medcalfe Way Bridge Street Chatteris Cambridgeshire PE16 6QZ England
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Mr Thomas O'Sullivan
Advance Micro Services & Environmental
Laboratories Ltd
Carrigeen Industrial Estate
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Fax: 052 61 78133

Certificate Number: TCHC398044-1 Final
Date Reported: 25/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567332	Desc: 2559246.Guayusa Leaf Tea, Batch:IK001. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AM/C/1015	Moisture (Loss on Drying)	5.5	g / 100g	
		AM/C/224	Protein (Nx6.25)	14.7	g / 100g	
		AM/C/1015	Total Fat (NMR)	7.8	g / 100g	
		AM/C/803	Ash	7.2	g / 100g	
		AM/C/901	Total Carbohydrate (by difference)	64.8	g / 100g	
		AM/C/309	Total Dietary Fibre (AOAC)	34.3	g / 100g	
		AM/C/901	Available Carbohydrate (by difference)	30.5	g / 100g	
		AM/C/901	Energy	320	kcal / 100g	
		AM/C/901	Energy	1331	kJ / 100g	
		AM/C/1014	Total Sugar	5.2	g / 100g	
		AM/C/1002	Sodium (ICP-OES)	3.61	mg / 100g	
		AM/C/107	Saturated Fatty Acids (in sample)	3.26	g / 100g	
		AM/C/107	Monounsaturated Fatty Acids (in sample)	0.79	g / 100g	
		AM/C/107	Polyunsaturated Fatty Acids (in sample)	3.41	g / 100g	

The results for saturated, monounsaturated and polyunsaturated fatty acids in the sample use a 0.956 conversion factor for non fatty acid material in the fat.

The values above for the total monounsaturated fatty acids and total polyunsaturated fatty acids are inclusive of both cis and trans components.



Nigel Cliff

Lab Manager - Nutritional Chemistry

For and on Behalf of ALS Food and Pharmaceutical

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Certificate Number: TCHC398045-1 Final
Date Reported: 25/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567333	Desc: 2559247.Guayusa Leaf Tea, Batch:JK002. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AM/C/1015	Moisture (Loss on Drying)	6.8	g / 100g	
		AM/C/224	Protein (Nx6.25)	14.3	g / 100g	
		AM/C/1015	Total Fat (NMR)	8.3	g / 100g	
		AM/C/803	Ash	9.5	g / 100g	
		AM/C/901	Total Carbohydrate (by difference)	61.1	g / 100g	
		AM/C/309	Total Dietary Fibre (AOAC)	38.8	g / 100g	
		AM/C/901	Available Carbohydrate (by difference)	22.3	g / 100g	
		AM/C/901	Energy	299	kcal / 100g	
		AM/C/901	Energy	1239	kJ / 100g	
		AM/C/1014	Total Sugar	3.4	g / 100g	
		AM/C/1002	Sodium (ICP-OES)	4.19	mg / 100g	
		AM/C/107	Saturated Fatty Acids (in sample)	3.72	g / 100g	
		AM/C/107	Monounsaturated Fatty Acids (in sample)	0.97	g / 100g	
		AM/C/107	Polyunsaturated Fatty Acids (in sample)	3.22	g / 100g	

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Certificate Number: TCHC398046-1 Final
Date Reported: 25/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567334	Desc: 2559248.Guayusa Leaf Tea, Batch:JK003. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AM/C/1015	Moisture (Loss on Drying)	4.7	g / 100g	
		AM/C/224	Protein (Nx6.25)	15.0	g / 100g	
		AM/C/1015	Total Fat (NMR)	7.9	g / 100g	
		AM/C/803	Ash	7.3	g / 100g	
		AM/C/901	Total Carbohydrate (by difference)	65.1	g / 100g	
		AM/C/309	Total Dietary Fibre (AOAC)	37.9	g / 100g	
		AM/C/901	Available Carbohydrate (by difference)	27.2	g / 100g	
		AM/C/901	Energy	316	kcal / 100g	
		AM/C/901	Energy	1314	kJ / 100g	
		AM/C/1014	Total Sugar	5.1	g / 100g	
		AM/C/1002	Sodium (ICP-OES)	<3	mg / 100g	
		AM/C/107	Saturated Fatty Acids (In sample)	3.33	g / 100g	
		AM/C/107	Monounsaturated Fatty Acids (in sample)	0.76	g / 100g	
		AM/C/107	Polyunsaturated Fatty Acids (in sample)	3.49	g / 100g	

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Date Reported: 25/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567335	Desc: 2559249.Guayusa Leaf Tea, Batch:JK004. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AM/C/1015	Moisture (Loss on Drying)	4.7	g / 100g	
		AM/C/224	Protein (Nx6.25)	15.1	g / 100g	
		AM/C/1015	Total Fat (NMR)	8.0	g / 100g	
		AM/C/803	Ash	7.4	g / 100g	
		AM/C/901	Total Carbohydrate (by difference)	64.8	g / 100g	
		AM/C/309	Total Dietary Fibre (AOAC)	35.8	g / 100g	
		AM/C/901	Available Carbohydrate (by difference)	29.0	g / 100g	
		AM/C/901	Energy	320	kcal / 100g	
		AM/C/901	Energy	1332	kJ / 100g	
		AM/C/1014	Total Sugar	5.2	g / 100g	
		AM/C/1002	Sodium (ICP-OES)	<3	mg / 100g	
		AM/C/107	Saturated Fatty Acids (in sample)	3.35	g / 100g	
		AM/C/107	Monounsaturated Fatty Acids (in sample)	0.75	g / 100g	
		AM/C/107	Polyunsaturated Fatty Acids (in sample)	3.52	g / 100g	

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Certificate Number: TCHC398048-1 Final
Date Reported: 25/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567336	Desc: 2559250.Guayusa Leaf Tea, Batch:IK005. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AM/C/1015	Moisture (Loss on Drying)	5.3	g / 100g	
		AM/C/224	Protein (Nx6.25)	15.0	g / 100g	
		AM/C/1015	Total Fat (NMR)	7.8	g / 100g	
		AM/C/803	Ash	7.2	g / 100g	
		AM/C/901	Total Carbohydrate (by difference)	64.7	g / 100g	
		AM/C/309	Total Dietary Fibre (AOAC)	38.1	g / 100g	
		AM/C/901	Available Carbohydrate (by difference)	26.6	g / 100g	
		AM/C/901	Energy	313	kcal / 100g	
		AM/C/901	Energy	1301	kJ / 100g	
		AM/C/1014	Total Sugar	5.3	g / 100g	
		AM/C/1002	Sodium (ICP-OES)	<3	mg / 100g	
		AM/C/107	Saturated Fatty Acids (in sample)	3.15	g / 100g	
		AM/C/107	Monounsaturated Fatty Acids (in sample)	0.76	g / 100g	
		AM/C/107	Polyunsaturated Fatty Acids (in sample)	3.57	g / 100g	

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Certificate Number: TCHC398049-1 Final
Date Reported: 25/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567337	Desc: 2559251 Yerba Mate. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AM/C/1015	Moisture (Loss on Drying)	5.1	g / 100g	
		AM/C/224	Protein (Nx6.25)	14.1	g / 100g	
		AM/C/1015	Total Fat (NMR)	2.7	g / 100g	
		AM/C/803	Ash	6.4	g / 100g	
		AM/C/901	Total Carbohydrate (by difference)	71.7	g / 100g	
		AM/C/309	Total Dietary Fibre (AOAC)	36.5	g / 100g	
		AM/C/901	Available Carbohydrate (by difference)	35.2	g / 100g	
		AM/C/901	Energy	294	kcal / 100g	
		AM/C/901	Energy	1229	kJ / 100g	
		AM/C/1014	Total Sugar	4.0	g / 100g	
		AM/C/1002	Sodium (ICP-OES)	<3	mg / 100g	
		AM/C/107	Saturated Fatty Acids (In sample)	1.83	g / 100g	
		AM/C/107	Monounsaturated Fatty Acids (in sample)	0.46	g / 100g	
		AM/C/107	Polyunsaturated Fatty Acids (in sample)	0.25	g / 100g	

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Certificate Number: TCHC398050-1 Final
Date Reported: 01/02/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567338	Desc: 2559252 Guayusa Leaf Tea Batch: IK001. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMV/929	Caffeine Assay	1910	mg / 100g	

Gemma A. Parr

Section Head Vitamins and Additives

For and on Behalf of ALS Food and Pharmaceutical

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Certificate Number: TCHC398051-1 Final
Date Reported: 01/02/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567339	Desc: 2559253 Guayusa Leaf Tea Batch: IK002. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMN/929	Caffeine Assay	1890	mg / 100g	



Gemma A. Parr

Section Head Vitamins and Additives

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Date Reported: 01/02/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567340	Desc: 2559254 Guayusa Leaf Tea Batch: JK003. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AM/V/929	Caffeine Assay	1940	mg / 100g	

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Date Reported: 01/02/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567341	Desc: 2559255 Guayusa Leaf Tea Batch: IK004. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMN/929	Caffeine Assay	1910	mg / 100g	



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Date Reported: 01/02/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567342	Desc: 2559256 Guayusa Leaf Tea Batch: IK005. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMV/929	Caffeine Assay	1860	mg / 100g	



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Date Reported: 01/02/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567343	Desc: 2559257 Yerba Mate. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMN/929	Caffeine Assay	1540	mg / 100g	



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Certificate Number: TCHC398056-1 Final
Date Reported: 30/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567344	Desc: 2559258 Guayusa Leaf Tea Batch: IK001. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMN/206	Aspartic Acid (Total)	1.08	g / 100g	
		AMN/206	Serine (Total)	0.54	g / 100g	
		AMN/206	Glutamic Acid (Total)	1.22	g / 100g	
		AMN/206	Glycine (Total)	0.53	g / 100g	
		AMN/206	Histidine (Total)	0.22	g / 100g	
		AMN/206	Arginine (Total)	0.58	g / 100g	
		AMN/206	Threonine (Total)	0.51	g / 100g	
		AMN/206	Alanine (Total)	0.60	g / 100g	
		AMN/206	Proline (Total)	0.54	g / 100g	
		AMN/206	Cystine (Total)	0.10	g / 100g	
		AMN/206	Tyrosine (Total)	0.38	g / 100g	
		AMN/206	Valine (Total)	0.61	g / 100g	
		AMN/206	Methionine (Total)	0.21	g / 100g	
		AMN/206	Lysine (Total)	0.64	g / 100g	
		AMN/206	Iso-Leucine (Total)	0.47	g / 100g	
		AMN/206	Leucine (Total)	0.86	g / 100g	
AMN/206	Phenylalanine (Total)	0.55	g / 100g			

The above Arginine result should be considered as approximation if the amino acid Taurine is present within this sample. Taurine can be analysed by ALS using a separate method.



Adam J. Green

Section Head - Vitamins and Additives

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Date Reported: 30/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567345	Desc: 2559259 Guayusa Leaf Tea Batch: IK002. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMN/206	Aspartic Acid (Total)	1.09	g / 100g	
		AMN/206	Serine (Total)	0.51	g / 100g	
		AMN/206	Glutamic Acid (Total)	1.15	g / 100g	
		AMN/206	Glycine (Total)	0.50	g / 100g	
		AMN/206	Histidine (Total)	0.20	g / 100g	
		AMN/206	Arginine (Total)	0.53	g / 100g	
		AMN/206	Threonine (Total)	0.49	g / 100g	
		AMN/206	Alanine (Total)	0.56	g / 100g	
		AMN/206	Proline (Total)	0.51	g / 100g	
		AMN/206	Cystine (Total)	0.09	g / 100g	
		AMN/206	Tyrosine (Total)	0.36	g / 100g	
		AMN/206	Valine (Total)	0.59	g / 100g	
		AMN/206	Methionine (Total)	0.19	g / 100g	
		AMN/206	Lysine (Total)	0.64	g / 100g	
		AMN/206	Iso-Leucine (Total)	0.46	g / 100g	
		AMN/206	Leucine (Total)	0.81	g / 100g	
AMN/206	Phenylalanine (Total)	0.52	g / 100g			

The above Arginine result should be considered as approximation if the amino acid Taurine is present within this sample. Taurine can be analysed by ALS using a separate method.



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Certificate Number: TCHC398058-1 Final
Date Reported: 30/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567346	Desc: 2559260 Guayusa Leaf Tea Batch: IK003. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMN/206	Aspartic Acid (Total)	1.08	g / 100g	
		AMN/206	Serine (Total)	0.55	g / 100g	
		AMN/206	Glutamic Acid (Total)	1.22	g / 100g	
		AMN/206	Glycine (Total)	0.54	g / 100g	
		AMN/206	Histidine (Total)	0.22	g / 100g	
		AMN/206	Arginine (Total)	0.56	g / 100g	
		AMN/206	Threonine (Total)	0.52	g / 100g	
		AMN/206	Alanine (Total)	0.61	g / 100g	
		AMN/206	Proline (Total)	0.54	g / 100g	
		AMN/206	Cystine (Total)	0.10	g / 100g	
		AMN/206	Tyrosine (Total)	0.38	g / 100g	
		AMN/206	Valine (Total)	0.61	g / 100g	
		AMN/206	Methionine (Total)	0.21	g / 100g	
		AMN/206	Lysine (Total)	0.63	g / 100g	
		AMN/206	Iso-Leucine (Total)	0.48	g / 100g	
		AMN/206	Leucine (Total)	0.88	g / 100g	
AMN/206	Phenylalanine (Total)	0.56	g / 100g			

The above Arginine result should be considered as approximation if the amino acid Taurine is present within this sample. Taurine can be analysed by ALS using a separate method.



Adam J. Green

Section Head - Vitamins and Additives

For and on Behalf of ALS Food and Pharmaceutical

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Certificate Number: TCHC398059-1 Final
Date Reported: 30/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567347	Desc: 2559261 Guayusa Leaf Tea Batch: IK004. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMN/206	Aspartic Acid (Total)	1.10	g / 100g	
		AMN/206	Serine (Total)	0.55	g / 100g	
		AMN/206	Glutamic Acid (Total)	1.23	g / 100g	
		AMN/206	Glycine (Total)	0.54	g / 100g	
		AMN/206	Histidine (Total)	0.22	g / 100g	
		AMN/206	Arginine (Total)	0.56	g / 100g	
		AMN/206	Threonine (Total)	0.52	g / 100g	
		AMN/206	Alanine (Total)	0.61	g / 100g	
		AMN/206	Proline (Total)	0.54	g / 100g	
		AMN/206	Cystine (Total)	0.11	g / 100g	
		AMN/206	Tyrosine (Total)	0.39	g / 100g	
		AMN/206	Valine (Total)	0.63	g / 100g	
		AMN/206	Methionine (Total)	0.22	g / 100g	
		AMN/206	Lysine (Total)	0.64	g / 100g	
		AMN/206	Iso-Leucine (Total)	0.50	g / 100g	
		AMN/206	Leucine (Total)	0.89	g / 100g	
AMN/206	Phenylalanine (Total)	0.57	g / 100g			

The above Arginine result should be considered as approximation if the amino acid Taurine is present within this sample. Taurine can be analysed by ALS using a separate method.



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Certificate Number: TCHC398060-1 Final
Date Reported: 30/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567348	Desc: 2559262 Guayusa Leaf Tea Batch: IK005. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMN/206	Aspartic Acid (Total)	1.09	g / 100g	
		AMN/206	Serine (Total)	0.54	g / 100g	
		AMN/206	Glutamic Acid (Total)	1.24	g / 100g	
		AMN/206	Glycine (Total)	0.54	g / 100g	
		AMN/206	Histidine (Total)	0.22	g / 100g	
		AMN/206	Arginine (Total)	0.58	g / 100g	
		AMN/206	Threonine (Total)	0.52	g / 100g	
		AMN/206	Alanine (Total)	0.61	g / 100g	
		AMN/206	Proline (Total)	0.54	g / 100g	
		AMN/206	Cystine (Total)	0.10	g / 100g	
		AMN/206	Tyrosine (Total)	0.38	g / 100g	
		AMN/206	Valine (Total)	0.64	g / 100g	
		AMN/206	Methionine (Total)	0.22	g / 100g	
		AMN/206	Lysine (Total)	0.63	g / 100g	
		AMN/206	Iso-Leucine (Total)	0.50	g / 100g	
		AMN/206	Leucine (Total)	0.88	g / 100g	
AMN/206	Phenylalanine (Total)	0.57	g / 100g			

The above Arginine result should be considered as approximation if the amino acid Taurine is present within this sample. Taurine can be analysed by ALS using a separate method.



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Certificate Number: TCHC398061-1 Final
Date Reported: 30/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567349	Desc: 2559263 Yerba Mate. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMN/206	Aspartic Acid (Total)	0.98	g / 100g	
		AMN/206	Serine (Total)	0.50	g / 100g	
		AMN/206	Glutamic Acid (Total)	1.08	g / 100g	
		AMN/206	Glycine (Total)	0.50	g / 100g	
		AMN/206	Histidine (Total)	0.19	g / 100g	
		AMN/206	Arginine (Total)	0.50	g / 100g	
		AMN/206	Threonine (Total)	0.47	g / 100g	
		AMN/206	Alanine (Total)	0.55	g / 100g	
		AMN/206	Proline (Total)	0.49	g / 100g	
		AMN/206	Cystine (Total)	0.09	g / 100g	
		AMN/206	Tyrosine (Total)	0.34	g / 100g	
		AMN/206	Valine (Total)	0.54	g / 100g	
		AMN/206	Methionine (Total)	0.19	g / 100g	
		AMN/206	Lysine (Total)	0.50	g / 100g	
		AMN/206	Iso-Leucine (Total)	0.41	g / 100g	
		AMN/206	Leucine (Total)	0.79	g / 100g	
AMN/206	Phenylalanine (Total)	0.49	g / 100g			

The above Arginine result should be considered as approximation if the amino acid Taurine is present within this sample. Taurine can be analysed by ALS using a separate method.



Adam J. Green

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Certificate Number: TCHC398062-1 Final
Date Reported: 30/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567350	Desc: 2559264 Guayusa Leaf Tea Batch JK001. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMN/206	Aspartic Acid (Free)	0.083	g / 100g	
		AMN/206	Serine (Free)	0.024	g / 100g	
		AMN/206	Glutamic Acid (Free)	0.126	g / 100g	
		AMN/206	Glycine (Free)	<0.005	g / 100g	
		AMN/206	Histidine (Free)	0.007	g / 100g	
		AMN/206	Arginine (Free)	<0.005	g / 100g	
		AMN/206	Threonine (Free)	0.006	g / 100g	
		AMN/206	Alanine (Free)	0.022	g / 100g	
		AMN/206	Proline (Free)	0.012	g / 100g	
		AMN/206	Cystine (Free)	<0.005	g / 100g	
		AMN/206	Tyrosine (Free)	0.006	g / 100g	
		AMN/206	Valine (Free)	0.006	g / 100g	
		AMN/206	Methionine (Free)	<0.005	g / 100g	
		AMN/206	Lysine (Free)	<0.005	g / 100g	
		AMN/206	Iso-Leucine (Free)	<0.005	g / 100g	
		AMN/206	Leucine (Free)	<0.005	g / 100g	
		AMN/206	Phenylalanine (Free)	<0.005	g / 100g	

Due to potential co-elution of one or more amino acids, the above results for Histidine, Arginine and Serine should be considered as approximations only.



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Certificate Number: TCHC398063-1 Final
Date Reported: 30/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Table with 7 columns: Lab Ref., Sample Details, Method Number, Test, Result, Units, Flag. Contains 17 rows of amino acid test results for sample CHC567351.

Due to potential co-elution of one or more amino acids, the above results for Histidine, Arginine and Serine should be considered as approximations only.

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Certificate Number: TCHC398064-1 Final
Date Reported: 30/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567352	Desc: 2559266 Guayusa Leaf Tea Batch IK003. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMN/206	Aspartic Acid (Free)	0.079	g / 100g	
		AMN/206	Serine (Free)	0.020	g / 100g	
		AMN/206	Glutamic Acid (Free)	0.123	g / 100g	
		AMN/206	Glycine (Free)	<0.005	g / 100g	
		AMN/206	Histidine (Free)	0.005	g / 100g	
		AMN/206	Arginine (Free)	<0.005	g / 100g	
		AMN/206	Threonine (Free)	0.005	g / 100g	
		AMN/206	Alanine (Free)	0.021	g / 100g	
		AMN/206	Proline (Free)	0.011	g / 100g	
		AMN/206	Cystine (Free)	<0.005	g / 100g	
		AMN/206	Tyrosine (Free)	<0.005	g / 100g	
		AMN/206	Valine (Free)	<0.005	g / 100g	
		AMN/206	Methionine (Free)	<0.005	g / 100g	
		AMN/206	Lysine (Free)	<0.005	g / 100g	
		AMN/206	Iso-Leucine (Free)	<0.005	g / 100g	
		AMN/206	Leucine (Free)	<0.005	g / 100g	
AMN/206	Phenylalanine (Free)	<0.005	g / 100g			

Due to potential co-elution of one or more amino acids, the above results for Histidine, Arginine and Serine should be considered as approximations only.



Adam J. Green

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Certificate Number: TCHC398065-1 Final
Date Reported: 30/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567353	Desc: 2559267 Guayusa Leaf Tea Batch IK004. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMN/206	Aspartic Acid (Free)	0.077	g / 100g	
		AMN/206	Serine (Free)	0.020	g / 100g	
		AMN/206	Glutamic Acid (Free)	0.122	g / 100g	
		AMN/206	Glycine (Free)	<0.005	g / 100g	
		AMN/206	Histidine (Free)	0.005	g / 100g	
		AMN/206	Arginine (Free)	<0.005	g / 100g	
		AMN/206	Threonine (Free)	0.005	g / 100g	
		AMN/206	Alanine (Free)	0.021	g / 100g	
		AMN/206	Proline (Free)	0.011	g / 100g	
		AMN/206	Cystine (Free)	<0.005	g / 100g	
		AMN/206	Tyrosine (Free)	<0.005	g / 100g	
		AMN/206	Valine (Free)	<0.005	g / 100g	
		AMN/206	Methionine (Free)	<0.005	g / 100g	
		AMN/206	Lysine (Free)	<0.005	g / 100g	
		AMN/206	Iso-Leucine (Free)	<0.005	g / 100g	
		AMN/206	Leucine (Free)	<0.005	g / 100g	
AMN/206	Phenylalanine (Free)	<0.005	g / 100g			

Due to potential co-elution of one or more amino acids, the above results for Histidine, Arginine and Serine should be considered as approximations only.



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Certificate Number: TCHC398066-1 Final
Date Reported: 30/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567354	Desc: 2559268 Guayusa Leaf Tea Batch JK005. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMN/206	Aspartic Acid (Free)	0.080	g / 100g	
		AMN/206	Serine (Free)	0.021	g / 100g	
		AMN/206	Glutamic Acid (Free)	0.131	g / 100g	
		AMN/206	Glycine (Free)	<0.005	g / 100g	
		AMN/206	Histidine (Free)	0.006	g / 100g	
		AMN/206	Arginine (Free)	<0.005	g / 100g	
		AMN/206	Threonine (Free)	0.006	g / 100g	
		AMN/206	Alanine (Free)	0.022	g / 100g	
		AMN/206	Proline (Free)	0.011	g / 100g	
		AMN/206	Cystine (Free)	<0.005	g / 100g	
		AMN/206	Tyrosine (Free)	<0.005	g / 100g	
		AMN/206	Valine (Free)	0.005	g / 100g	
		AMN/206	Methionine (Free)	<0.005	g / 100g	
		AMN/206	Lysine (Free)	<0.005	g / 100g	
		AMN/206	Iso-Leucine (Free)	<0.005	g / 100g	
		AMN/206	Leucine (Free)	<0.005	g / 100g	
AMN/206	Phenylalanine (Free)	<0.005	g / 100g			

Due to potential co-elution of one or more amino acids, the above results for Histidine, Arginine and Serine should be considered as approximations only.



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Certificate Number: TCHC398067-1 Final
Date Reported: 30/01/2017
Date Analysis Started: 19/01/2017
Order Number: CGES-429120117

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CHC567355	Desc: 2559269 Yerba Mate. Order No: CGES-429120117 Date Received: 18/01/2017 Date Tested: 18/01/2017	AMN/206	Aspartic Acid (Free)	0.056	g / 100g	
		AMN/206	Serine (Free)	0.017	g / 100g	
		AMN/206	Glutamic Acid (Free)	0.058	g / 100g	
		AMN/206	Glycine (Free)	<0.005	g / 100g	
		AMN/206	Histidine (Free)	<0.005	g / 100g	
		AMN/206	Arginine (Free)	0.018	g / 100g	
		AMN/206	Threonine (Free)	<0.005	g / 100g	
		AMN/206	Alanine (Free)	0.006	g / 100g	
		AMN/206	Proline (Free)	0.006	g / 100g	
		AMN/206	Cystine (Free)	<0.005	g / 100g	
		AMN/206	Tyrosine (Free)	<0.005	g / 100g	
		AMN/206	Valine (Free)	<0.005	g / 100g	
		AMN/206	Methionine (Free)	<0.005	g / 100g	
		AMN/206	Lysine (Free)	<0.005	g / 100g	
		AMN/206	Iso-Leucine (Free)	<0.005	g / 100g	
		AMN/206	Leucine (Free)	<0.005	g / 100g	
AMN/206	Phenylalanine (Free)	<0.005	g / 100g			

Due to potential co-elution of one or more amino acids, the above results for Histidine, Arginine and Serine should be considered as approximations only.



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CERTIFICATE OF ANALYSIS

Work Order	: FP17P1196	Issue Date	: 20-FEB-2017
Client	: ALS Life Sciences Ltd	Laboratory	: ALS Czech Republic, s.r.o.
Contact	: Thomas O'Sullivan	Contact	: F&P Client Service
Address	: Carrigeen Business Park Clonmel Co. Tipperary Tipperary Ireland	Address	: Na Harfe 336/9 Prague 9 - Vysocany Czech Republic 190 00
E-mail	: Thomas.O'Sullivan@alsglobal.com	E-mail	: czsupport.food@alsglobal.com
Telephone	: ----	Telephone	: +420 226 226 998
Facsimile	: ----	Facsimile	: +420 284 081 635
Project	: ----	Page	: 1 of 4
Order number	: CGES-430120117	Date Samples	: 18-JAN-2017
C-O-C number	: ----	Received	: FP2015ALSLI-IE0005
Site	: ----	Quote number	: (CZ-200-15-5251)
Sampled by	: client	Date of test	: 18-JAN-2017 - 17-FEB-2017
		QC Level	: ALS CR Standard Quality Control Schedule

General Comments

This report shall not be reproduced except in full, without prior written approval from the laboratory.
The laboratory declares that the test results relate only to the listed samples.

Responsible for accuracy

Signatories
Marek Jiricek

Position
Food & Pharmaceutical Manager

Testing Laboratory Accredited by CAI
according to CSN EN ISO/IEC 17025:2005



Sample Information

No. of samples received : 6
No. of samples analysed : 6

Date Samples Received
18-JAN-2017

When sampling time information is not provided by the client, sampling dates are shown without a time component.
In these instances, the time component has been assumed by the laboratory for processing purposes. Bracketted 'Laboratory sample ID' indicates that no analysis was performed on the sample.

Sub-Matrix : DRIED HERBS

Laboratory sample ID	Client sample ID	Client sampling date / time
FP17P1196-001	2559282 Guayusa leaf tea batch: IK001	18-JAN-2017 00:00
FP17P1196-002	2559283 Guayusa leaf tea batch: IK002	18-JAN-2017 00:00
FP17P1196-003	2559284 Guayusa leaf tea batch: IK003	18-JAN-2017 00:00
FP17P1196-004	2559285 Guayusa leaf tea batch: IK004	18-JAN-2017 00:00
FP17P1196-005	2559286 Guayusa leaf tea batch: IK005	18-JAN-2017 00:00
FP17P1196-006	2559287 Yerba Mate	18-JAN-2017 00:00

Sub-Matrix : VEGETATION

Laboratory sample ID	Client sample ID	Client sampling date / time
FP17P1196-002	2559283 Guayusa leaf tea batch: IK002	18-JAN-2017 00:00
FP17P1196-003	2559284 Guayusa leaf tea batch: IK003	18-JAN-2017 00:00
FP17P1196-004	2559285 Guayusa leaf tea batch: IK004	18-JAN-2017 00:00

Issue Date : 20-FEB-2017
 Page : 2 of 4
 Work Order : FP17P1196
 Client : ALS Life Sciences Ltd



Sub-Matrix : VEGETATION

Laboratory sample ID	Client sample ID	Client sampling date / time
FP17P1196-005	2559286 Guayusa leaf tea batch: IK005	18-JAN-2017 00:00
FP17P1196-006	2559287 Yerba Mate	18-JAN-2017 00:00

Analytical Results

Sub-Matrix: DRIED HERBS

Parameter	Method	LOR	Unit	Laboratory sample ID		Client sampling date / time		FP17P1196-001	
				Result	MU	Result	MU	Result	MU
				FP17P1196-001	---	---	---	---	
				18-JAN-2017 00:00	---	---	---	---	
Total Metals / Major Cations									
Aluminium	B-METAXDG2	2.0	mg/kg	287	±20.0 %	---	---	---	---
Antimony	B-METAXDG2	1.0	mg/kg	<1.0	---	---	---	---	---
Arsenic	B-METAXDG2	2.0	mg/kg	<2.0	---	---	---	---	---
Barium	B-METAXDG2	0.50	mg/kg	77.7	±20.0 %	---	---	---	---
Beryllium	B-METAXDG2	0.050	mg/kg	<0.050	---	---	---	---	---
Bismuth	B-METAXDG2	2.0	mg/kg	<2.0	---	---	---	---	---
Boron	B-METAXDG2	2.0	mg/kg	22.6	±20.0 %	---	---	---	---
Cadmium	B-METAXDG2	0.10	mg/kg	0.86	±20.0 %	---	---	---	---
Chromium	B-METAXDG2	0.2	mg/kg	<0.2	---	---	---	---	---
Cobalt	B-METAXDG2	0.5	mg/kg	<0.5	---	---	---	---	---
Copper	B-METAXDG2	0.20	mg/kg	9.08	±20.0 %	---	---	---	---
Iron	B-METAXDG2	1.0	mg/kg	31.0	±20.0 %	---	---	---	---
Lead	B-METAXDG2	1.0	mg/kg	<1.0	---	---	---	---	---
Lithium	B-METAXDG2	0.50	mg/kg	<0.50	---	---	---	---	---
Magnesium	B-METAXDG1	3.0	mg/kg	6070	±20.0 %	---	---	---	---
Manganese	B-METAXDG2	0.10	mg/kg	839	±20.0 %	---	---	---	---
Molybdenum	B-METAXDG2	0.50	mg/kg	1.97	±20.0 %	---	---	---	---
Nickel	B-METAXDG2	0.50	mg/kg	2.07	±20.0 %	---	---	---	---
Phosphorus	B-METAXDG1	2.0	mg/kg	3270	±20.0 %	---	---	---	---
Potassium	B-METAXDG1	10	mg/kg	15800	±20.0 %	---	---	---	---
Selenium	B-METAXDG2	5.0	mg/kg	<5.0	---	---	---	---	---
Silver	B-METAXDG2	0.50	mg/kg	<0.50	---	---	---	---	---
Sodium	B-METAXDG1	10.0	mg/kg	27.1	±20.0 %	---	---	---	---
Strontium	B-METAXDG2	0.20	mg/kg	105	±20.0 %	---	---	---	---
Thallium	B-METAXDG2	1.0	mg/kg	<1.0	---	---	---	---	---
Tin	B-METAXDG2	2.0	mg/kg	<2.0	---	---	---	---	---
Titanium	B-METAXDG2	0.10	mg/kg	0.29	±20.0 %	---	---	---	---
Vanadium	B-METAXDG2	0.10	mg/kg	<0.10	---	---	---	---	---
Zinc	B-METAXDG2	0.20	mg/kg	94.8	±20.0 %	---	---	---	---

Sub-Matrix: VEGETATION

Parameter	Method	LOR	Unit	Laboratory sample ID		Client sampling date / time		FP17P1196-002		FP17P1196-003		FP17P1196-004	
				Result	MU	Result	MU	Result	MU				
				FP17P1196-002	FP17P1196-003	FP17P1196-004							
				18-JAN-2017 00:00	18-JAN-2017 00:00	18-JAN-2017 00:00							
Total Metals / Major Cations													
Aluminium	B-METAXDG2	2.0	mg/kg	70.2	±20.0 %	308	±20.0 %	311	±20.0 %				
Antimony	B-METAXDG2	1.0	mg/kg	<1.0	---	<1.0	---	<1.0	---				
Arsenic	B-METAXDG2	2.0	mg/kg	<2.0	---	<2.0	---	<2.0	---				
Barium	B-METAXDG2	0.50	mg/kg	87.4	±20.0 %	83.2	±20.0 %	79.8	±20.0 %				
Beryllium	B-METAXDG2	0.050	mg/kg	<0.050	---	<0.050	---	<0.050	---				
Bismuth	B-METAXDG2	2.0	mg/kg	<2.0	---	<2.0	---	<2.0	---				
Boron	B-METAXDG2	2.0	mg/kg	54.7	±20.0 %	22.2	±20.0 %	21.7	±20.0 %				
Cadmium	B-METAXDG2	0.10	mg/kg	1.09	±20.0 %	1.06	±20.0 %	0.97	±20.0 %				
Chromium	B-METAXDG2	0.2	mg/kg	0.3	±20.0 %	0.2	±20.0 %	<0.2	---				
Cobalt	B-METAXDG2	0.5	mg/kg	<0.5	---	<0.5	---	<0.5	---				
Copper	B-METAXDG2	0.20	mg/kg	7.27	±20.0 %	9.18	±20.0 %	9.15	±20.0 %				
Iron	B-METAXDG2	1.0	mg/kg	32.1	±20.0 %	31.7	±20.0 %	31.7	±20.0 %				
Lead	B-METAXDG2	1.0	mg/kg	<1.0	---	<1.0	---	<1.0	---				
Lithium	B-METAXDG2	0.50	mg/kg	<0.50	---	<0.50	---	<0.50	---				
Magnesium	B-METAXDG1	3.0	mg/kg	6140	±20.0 %	6130	±20.0 %	6010	±20.0 %				

Issue Date : 20-FEB-2017
 Page : 3 of 4
 Work Order : FP17P1196
 Client : ALS Life Sciences Ltd



Sub-Matrix: VEGETATION				Laboratory sample ID		FP17P1196-002		FP17P1196-003		FP17P1196-004	
				Client sampling date / time		18-JAN-2017 00:00		18-JAN-2017 00:00		18-JAN-2017 00:00	
Parameter	Method	LOR	Unit	Result	MU	Result	MU	Result	MU	Result	MU
Total Metals / Major Cations - Continued											
Manganese	B-METAXDG2	0.10	mg/kg	53.3	±20.0 %	879	±20.0 %	860	±20.0 %		
Molybdenum	B-METAXDG2	0.50	mg/kg	3.63	±20.0 %	1.97	±20.0 %	2.04	±20.0 %		
Nickel	B-METAXDG2	0.50	mg/kg	<0.50	---	2.06	±20.0 %	2.00	±20.0 %		
Phosphorus	B-METAXDG1	2.0	mg/kg	8200	±20.0 %	3280	±20.0 %	3340	±20.0 %		
Potassium	B-METAXDG1	10	mg/kg	23900	±20.0 %	16300	±20.0 %	16800	±20.0 %		
Selenium	B-METAXDG2	5.0	mg/kg	<5.0	---	<5.0	---	<5.0	---		
Silver	B-METAXDG2	0.50	mg/kg	<0.50	---	<0.50	---	<0.50	---		
Sodium	B-METAXDG1	10.0	mg/kg	34.5	±20.0 %	24.1	±20.0 %	25.0	±20.0 %		
Strontium	B-METAXDG2	0.20	mg/kg	152	±20.0 %	111	±20.0 %	109	±20.0 %		
Thallium	B-METAXDG2	1.0	mg/kg	<1.0	---	<1.0	---	<1.0	---		
Tin	B-METAXDG2	2.0	mg/kg	<2.0	---	<2.0	---	<2.0	---		
Titanium	B-METAXDG2	0.10	mg/kg	0.43	±20.0 %	0.29	±20.0 %	0.31	±20.0 %		
Vanadium	B-METAXDG2	0.10	mg/kg	<0.10	---	<0.10	---	0.20	±20.0 %		
Zinc	B-METAXDG2	0.20	mg/kg	46.4	±20.0 %	95.0	±20.0 %	95.2	±20.0 %		

Sub-Matrix: VEGETATION				Laboratory sample ID		FP17P1196-005		FP17P1196-006		----	
				Client sampling date / time		18-JAN-2017 00:00		18-JAN-2017 00:00		----	
Parameter	Method	LOR	Unit	Result	MU	Result	MU	---	---	---	---
Total Metals / Major Cations											
Aluminium	B-METAXDG2	2.0	mg/kg	286	±20.0 %	453	±20.0 %	---	---	---	---
Antimony	B-METAXDG2	1.0	mg/kg	<1.0	---	<1.0	---	---	---	---	---
Arsenic	B-METAXDG2	2.0	mg/kg	<2.0	---	<2.0	---	---	---	---	---
Barium	B-METAXDG2	0.50	mg/kg	82.5	±20.0 %	78.3	±20.0 %	---	---	---	---
Beryllium	B-METAXDG2	0.050	mg/kg	<0.050	---	0.065	±20.0 %	---	---	---	---
Bismuth	B-METAXDG2	2.0	mg/kg	<2.0	---	<2.0	---	---	---	---	---
Boron	B-METAXDG2	2.0	mg/kg	21.0	±20.0 %	77.9	±20.0 %	---	---	---	---
Cadmium	B-METAXDG2	0.10	mg/kg	0.99	±20.0 %	<0.10	---	---	---	---	---
Chromium	B-METAXDG2	0.2	mg/kg	<0.2	---	1.0	±20.0 %	---	---	---	---
Cobalt	B-METAXDG2	0.5	mg/kg	<0.5	---	0.6	±20.0 %	---	---	---	---
Copper	B-METAXDG2	0.20	mg/kg	8.74	±20.0 %	9.44	±20.0 %	---	---	---	---
Iron	B-METAXDG2	1.0	mg/kg	29.5	±20.0 %	184	±20.0 %	---	---	---	---
Lead	B-METAXDG2	1.0	mg/kg	<1.0	---	<1.0	---	---	---	---	---
Lithium	B-METAXDG2	0.50	mg/kg	<0.50	---	<0.50	---	---	---	---	---
Magnesium	B-METAXDG1	3.0	mg/kg	5800	±20.0 %	6580	±20.0 %	---	---	---	---
Manganese	B-METAXDG2	0.10	mg/kg	813	±20.0 %	2070	±20.0 %	---	---	---	---
Molybdenum	B-METAXDG2	0.50	mg/kg	2.04	±20.0 %	<0.50	---	---	---	---	---
Nickel	B-METAXDG2	0.50	mg/kg	1.89	±20.0 %	5.40	±20.0 %	---	---	---	---
Phosphorus	B-METAXDG1	2.0	mg/kg	3110	±20.0 %	1370	±20.0 %	---	---	---	---
Potassium	B-METAXDG1	10	mg/kg	15900	±20.0 %	15300	±20.0 %	---	---	---	---
Selenium	B-METAXDG2	5.0	mg/kg	<5.0	---	<5.0	---	---	---	---	---
Silver	B-METAXDG2	0.50	mg/kg	<0.50	---	<0.50	---	---	---	---	---
Sodium	B-METAXDG1	10.0	mg/kg	24.9	±20.0 %	19.7	±20.0 %	---	---	---	---
Strontium	B-METAXDG2	0.20	mg/kg	108	±20.0 %	33.8	±20.0 %	---	---	---	---
Thallium	B-METAXDG2	1.0	mg/kg	<1.0	---	<1.0	---	---	---	---	---
Tin	B-METAXDG2	2.0	mg/kg	<2.0	---	<2.0	---	---	---	---	---
Titanium	B-METAXDG2	0.10	mg/kg	0.29	±20.0 %	4.40	±20.0 %	---	---	---	---
Vanadium	B-METAXDG2	0.10	mg/kg	<0.10	---	0.59	±20.0 %	---	---	---	---
Zinc	B-METAXDG2	0.20	mg/kg	94.8	±20.0 %	54.3	±20.0 %	---	---	---	---





Descriptive Results

Sub-Matrix: DRIED HERBS

Method: Compound	Laboratory sample ID	Client sample ID - Client sampling date / time	Analytical Results
Miscellaneous Parameters			
B-UNICO-SUB: Subcontracted Analysis	FP17P1196001	2559282 Guayusa leaf tea batch: IK001 - 18-JAN-2017 00:00	in the attachment

Sub-Matrix: VEGETATION

Method: Compound	Laboratory sample ID	Client sample ID - Client sampling date / time	Analytical Results
Miscellaneous Parameters			
B-UNICO-SUB: Subcontracted Analysis	FP17P1196002	2559283 Guayusa leaf tea batch: IK002 - 18-JAN-2017 00:00	in the attachment
B-UNICO-SUB: Subcontracted Analysis	FP17P1196003	2559284 Guayusa leaf tea batch: IK003 - 18-JAN-2017 00:00	in the attachment
B-UNICO-SUB: Subcontracted Analysis	FP17P1196004	2559285 Guayusa leaf tea batch: IK004 - 18-JAN-2017 00:00	in the attachment
B-UNICO-SUB: Subcontracted Analysis	FP17P1196005	2559286 Guayusa leaf tea batch: IK005 - 18-JAN-2017 00:00	in the attachment
B-UNICO-SUB: Subcontracted Analysis	FP17P1196006	2559287 Yerba Mate - 18-JAN-2017 00:00	in the attachment

If the client does not specify the date and time of sample collection, the laboratory will specify the date on sample delivery in parentheses, instead. If the time of sample collection is specified as 0:00 it means that the client did specify the date but not the time. Measurement uncertainty is expressed as expanded measurement uncertainty with coverage factor $k = 2$, representing 95% confidence level.

Key: LOR = Limit of reporting; MU = Measurement Uncertainty

The end of result part of the certificate of analysis

Brief Method Summaries

Analytical Methods	Method Descriptions
<i>Location of test performance: Na Harfe 336/9 Prague 9 - Vysocany Czech Republic 190 00</i>	
B-METAXDG1	CZ_SOP_D06_02_001 (US EPA 200.7, ISO 11885, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8) Determination of elements by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values. Sample was homogenized and mineralized by acids and hydrogen peroxide prior to analysis.
B-METAXDG2	CZ_SOP_D06_02_001 (US EPA 200.7, ISO 11885, samples prepared as per CZ_SOP_D06_02_J02 chap. 10.17.1, 10.17.2, 10.17.4, 10.17.7, 10.17.8) Determination of elements by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values. Sample was homogenized and mineralized by acids and hydrogen peroxide prior to analysis.
*B-UNICO-SUB	Universal code for subcontracted service

A ** symbol preceding any method indicates non-accredited test. In the case when a procedure belonging to an accredited method was used for non-accredited matrix, would apply that the reported results are non-accredited. Please refer to General Comment section on front page for information.

The calculation methods of summation parameters are available on request in the client service.





Attachment no. 1 to the Test Report FP17P1196

Issue Date : 17/2/2017
Page : 1 of 3
Work Order : FP17P1196

Analytical Results

Matrix: DRIED HERBS

Sample name: FP17P1196/001 – 2559282 Guayusa leaf tea batch: IK001

Parameter	Results	Units	Accreditation
Thorium	0.00325 ± 0.00074	mg/kg	SA
Uranium	<0.002	mg/kg	SA

Matrix: DRIED HERBS

Sample name: FP17P1196/002 – 2559283 Guayusa leaf tea batch: IK002

Parameter	Results	Units	Accreditation
Thorium	<0.003	mg/kg	SA
Uranium	<0.003	mg/kg	SA

Matrix: DRIED HERBS

Sample name: FP17P1196/003 – 2559284 Guayusa leaf tea batch: IK003

Parameter	Results	Units	Accreditation
Thorium	0.00257 ± 0.00057	mg/kg	SA
Uranium	<0.003	mg/kg	SA

RIGHT SOLUTIONS | RIGHT PARTNER

Matrix: DRIED HERBS

Sample name: FP17P1196/004 – 2559285 Guayusa leaf tea batch: IK004

Parameter	Results	Units	Accreditation
Thorium	0.00293 ± 0.00063	mg/kg	SA
Uranium	<0.002	mg/kg	SA

Matrix: DRIED HERBS

Sample name: FP17P1196/005 – 2559286 Guayusa leaf tea batch: IK005

Parameter	Results	Units	Accreditation
Thorium	<0.002	mg/kg	SA
Uranium	<0.002	mg/kg	SA

Matrix: DRIED HERBS

Sample name: FP17P1196/005 – 2559287 Yerba Mate

Parameter	Results	Units	Accreditation
Thorium	0.0287 ± 0.0189	mg/kg	SA
Uranium	0.00515 ± 0.00107	mg/kg	SA

The end of result part of the attachment 1 to the Test Report

Brief Method Summaries: *ICP-SFMS*

Method specification:

Digestion of sample has been made in closed teflon containers in the microwave with HNO₃/H₂O₂/HF.

The ICP-SFMS analyses were carried out according to SS EN ISO 17294-1, 2 (modified) and US EPA Method 200.8 (modified).

Note that limits of reporting may be affected if, e.g. additional dilution was required because of matrix effects, or the sample quantity was limited.

SA: subcontracted, accredited

SN: subcontracted, non-accredited





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Report No: CGES-428120117

Document No: EF0011

CERTIFICATE OF ANALYSIS

Client CGESPLAN
Av. Río Amazonas y Pasaje Guayas
Edificio Banco General Rumiñahui,
Quito, Ecuador

Date Received 12/01/2017
Date Reported 17/01/2017
Order Number None

For the Attention of: Diego Fierro
Sample Reception 6 sample(s) received in good condition.
Comments N/A

Note: A # next to the result indicates that there was insufficient sample to carry out testing as per SOP.

Report Authorised by:

Denver Burke
Deputy Microbiology Manager

Conditions:

1. Results in this report relate only to the items tested
2. Reports may not be reproduced except in full without the approval of ALS Life Sciences Ltd
3. All queries regarding this report should be addressed to the Technical Manager at the above address
4. A * next to a method reference signifies that ALS Life Sciences Ltd is NOT INAB accredited for this method
5. Results reported as CFU/cm² are calculated based on information supplied by customer regarding area swabbed
6. CFU indicates Colony Forming Units, MPN indicates Most Probable Number
7. SUBCON* indicates analysis subcontracted to approved subcontractors who do not hold accreditation for this test
8. SUBCON^ indicates analysis subcontracted to approved subcontractors who hold accreditation for this test



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Report No: CGES-428120117

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Received 12/01/2017
Date Reported 17/01/2017
Order Number None

Sample Type Product
Client ID Guayusa leaf tea batch: IK001
Date Tested 12/01/2017
ALS ID 2559240

Test	Result	Unit	Method
Presumptive Coliforms	<10	CFU/g	SP 035 Based on ISO 4832 (2006)
Coagulase + staphylococci	<20	CFU/g	SP 036 Based on ISO 6888-1 (1999)
Bacillus cereus	20	CFU/g	SP 045 Based on ISO 7932 (2004)
Aerobic colony count	850	CFU/g	SP 048 Based on ISO 4833-1: 2013
β-Glucuronidase + E. coli	<10	CFU/g	SP 049 Based on ISO 16649-2 (2001)
Salmonella	Not Detected	25g	SP 102 Based on Solus ELISA
Yeasts	<100	CFU/g	SP 133 Based on ISO 21527-1 (2008)
Moulds	<100	CFU/g	SP 133 Based on ISO 21527-1 (2008)

Sample Type Product
Client ID Guayusa leaf tea batch: IK002
Date Tested 12/01/2017
ALS ID 2559241

Test	Result	Unit	Method
Presumptive Coliforms	<10	CFU/g	SP 035 Based on ISO 4832 (2006)
Coagulase + staphylococci	<20	CFU/g	SP 036 Based on ISO 6888-1 (1999)
Bacillus cereus	220	CFU/g	SP 045 Based on ISO 7932 (2004)
Aerobic colony count	300	CFU/g	SP 048 Based on ISO 4833-1: 2013
β-Glucuronidase + E. coli	<10	CFU/g	SP 049 Based on ISO 16649-2 (2001)
Salmonella	Not Detected	25g	SP 102 Based on Solus ELISA
Yeasts	100	CFU/g	SP 133 Based on ISO 21527-1 (2008)
Moulds	<100	CFU/g	SP 133 Based on ISO 21527-1 (2008)

Report Authorised by:

Denver Burke
 Deputy Microbiology Manager



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Report No: CGES-428120117

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Received 12/01/2017

Date Reported 17/01/2017

Order Number None

Sample Type Product
Client ID Guayusa leaf tea batch: IK003
Date Tested 12/01/2017
ALS ID 2559242

Test	Result	Unit	Method
Presumptive Coliforms	<10	CFU/g	SP 035 Based on ISO 4832 (2006)
Coagulase + staphylococci	<20	CFU/g	SP 036 Based on ISO 6888-1 (1999)
Bacillus cereus	<20	CFU/g	SP 045 Based on ISO 7932 (2004)
Aerobic colony count	330	CFU/g	SP 048 Based on ISO 4833-1: 2013
β-Glucuronidase + E. coli	<10	CFU/g	SP 049 Based on ISO 16649-2 (2001)
Salmonella	Not Detected	25g	SP 102 Based on Solus ELISA
Yeasts	<100	CFU/g	SP 133 Based on ISO 21527-1 (2008)
Moulds	<100	CFU/g	SP 133 Based on ISO 21527-1 (2008)

Sample Type Product
Client ID Guayusa leaf tea batch: IK004
Date Tested 12/01/2017
ALS ID 2559243

Test	Result	Unit	Method
Presumptive Colliforms	<10	CFU/g	SP 035 Based on ISO 4832 (2006)
Coagulase + staphylococci	<20	CFU/g	SP 036 Based on ISO 6888-1 (1999)
Bacillus cereus	20	CFU/g	SP 045 Based on ISO 7932 (2004)
Aerobic colony count	50	CFU/g	SP 048 Based on ISO 4833-1: 2013
β-Glucuronidase + E. coli	<10	CFU/g	SP 049 Based on ISO 16649-2 (2001)
Salmonella	Not Detected	25g	SP 102 Based on Solus ELISA
Yeasts	<100	CFU/g	SP 133 Based on ISO 21527-1 (2008)
Moulds	<100	CFU/g	SP 133 Based on ISO 21527-1 (2008)

Report Authorised by:

Denver Burke

Denver Burke
 Deputy Microbiology Manager



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Report No: CGES-428120117

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Received 12/01/2017
 Date Reported 17/01/2017
 Order Number None

Sample Type Product
 Client ID Guayusa leaf tea batch: IK005
 Date Tested 12/01/2017
 ALS ID 2559244

Test	Result	Unit	Method
Presumptive Coliforms	<10	CFU/g	SP 035 Based on ISO 4832 (2006)
Coagulase + staphylococci	<20	CFU/g	SP 036 Based on ISO 6888-1 (1999)
Bacillus cereus	20	CFU/g	SP 045 Based on ISO 7932 (2004)
Aerobic colony count	240	CFU/g	SP 048 Based on ISO 4833-1: 2013
β-Glucuronidase + E. coli	<10	CFU/g	SP 049 Based on ISO 16649-2 (2001)
Salmonella	Not Detected	25g	SP 102 Based on Solus ELISA
Yeasts	<100	CFU/g	SP 133 Based on ISO 21527-1 (2008)
Moulds	<100	CFU/g	SP 133 Based on ISO 21527-1 (2008)

Sample Type Product
 Client ID Yerba Mate
 Date Tested 12/01/2017
 ALS ID 2559245

Test	Result	Unit	Method
Presumptive Coliforms	<10	CFU/g	SP 035 Based on ISO 4832 (2006)
Coagulase + staphylococci	<20	CFU/g	SP 036 Based on ISO 6888-1 (1999)
Bacillus cereus	<20	CFU/g	SP 045 Based on ISO 7932 (2004)
Aerobic colony count	50	CFU/g	SP 048 Based on ISO 4833-1: 2013
β-Glucuronidase + E. coli	<10	CFU/g	SP 049 Based on ISO 16649-2 (2001)
Salmonella	Not Detected	25g	SP 102 Based on Solus ELISA
Yeasts	<100	CFU/g	SP 133 Based on ISO 21527-1 (2008)
Moulds	500	CFU/g	SP 133 Based on ISO 21527-1 (2008)

Report Authorised by:

Denver Burke

Denver Burke
 Deputy Microbiology Manager

Certificate Number: TCHC398028-1 Final	Lab Ref.: CHC567356
Mr Thomas O'Sullivan Advance Micro Services & Environmental Laboratories Ltd Carrigeen Industrial Estate Clonmel, Tipperary Ireland Fax: 052 61 78133	Date Analysis Started: 19/01/2017 Country of Origin: Date Reported: 01/02/2017

Commodity:

Sample Details: Desc: 2559270 Guayusa Leaf Tea Batch: IK001.
Order No: CGES-429120117
Date Received: 18/01/2017
Date Tested: 18/01/2017

Test	Result	Units	MRL	Rec. %	Method Number	Flag
<u>Mycotoxins</u>						
Deoxynivalenol (DON)	<10	µg / kg	-	-	SUB-CON	S
Diacetoxyscirpenol (DAS)	<10	µg / kg	-	-	SUB-CON	S
3-Acetyldeoxynivalenol (3AcDON)	<10	µg / kg	-	-	SUB-CON	S
15-Acetyldeoxynivalenol (15AcDON)	<10	µg / kg	-	-	SUB-CON	S
Fusarenone X (Fus X)	<10	µg / kg	-	-	SUB-CON	S
Nivalenol (NIV)	<10	µg / kg	-	-	SUB-CON	S
Neosolaniol (NEO)	<10	µg / kg	-	-	SUB-CON	S
T2 Toxin (T2)	<10	µg / kg	-	-	SUB-CON	S
HT2 Toxin (HT2)	<10	µg / kg	-	-	SUB-CON	S
T2-triol	<10	µg / kg	-	-	SUB-CON	S



Jonathan Bruss

Section Head

For and on Behalf of ALS Food and Pharmaceutical

Disclaimers:

MRL = UK Maximum Residue Level for

Rec. = Recovery efficiency of analytical method. The results on this certificate have not been corrected for recovery efficiency unless stated.

Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.

Unless otherwise stated, all results are expressed on an as received basis.

Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.

'S' indicates a test which is sub-contracted to an approved laboratory holding ISO 17025 accreditation.



Certificate Number: TCHC398029-1 Final	Lab Ref.: CHC567357
Mr Thomas O'Sullivan Advance Micro Services & Environmental Laboratories Ltd Carrigeen Industrial Estate Clonmel, Tipperary Ireland Fax: 052 61 78133	Date Analysis Started: 19/01/2017 Country of Origin: Date Reported: 01/02/2017

Commodity:

Sample Details: Desc: 2559271 Guayusa Leaf Tea Batch: IK002.
Order No: CGES-429120117
Date Received: 18/01/2017
Date Tested: 18/01/2017

Test	Result	Units	MRL	Rec. %	Method Number	Flag
Mycotoxins						
Deoxynivalenol (DON)	<10	µg / kg	-	-	SUB-CON	S
Diacetoxyscirpenol (DAS)	<10	µg / kg	-	-	SUB-CON	S
3-Acetyldeoxynivalenol (3AcDON)	<10	µg / kg	-	-	SUB-CON	S
15-Acetyldeoxynivalenol (15AcDON)	<10	µg / kg	-	-	SUB-CON	S
Fusarenone X (Fus X)	<10	µg / kg	-	-	SUB-CON	S
Nivalenol (NIV)	<10	µg / kg	-	-	SUB-CON	S
Neosolaniol (NEO)	<10	µg / kg	-	-	SUB-CON	S
T2 Toxin (T2)	<10	µg / kg	-	-	SUB-CON	S
HT2 Toxin (HT2)	<10	µg / kg	-	-	SUB-CON	S
T2-triol	<10	µg / kg	-	-	SUB-CON	S



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Section Head

For and on Behalf of ALS Food and Pharmaceutical

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Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

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Certificate Number: TCHC398030-1 Final	Lab Ref.: CHC567358
Mr Thomas O'Sullivan Advance Micro Services & Environmental Laboratories Ltd Carrigeen Industrial Estate Clonmel, Tipperary Ireland Fax: 052 61 78133	Date Analysis Started: 19/01/2017 Country of Origin: Date Reported: 01/02/2017

Commodity:

Sample Details: Desc: 2559272 Guayusa Leaf Tea Batch: IK003.
Order No: CGES-429120117
Date Received: 18/01/2017
Date Tested: 18/01/2017

Test	Result	Units	MRL	Rec. %	Method Number	Flag
<u>Mycotoxins</u>						
Deoxynivalenol (DON)	<10	µg / kg	-	-	SUB-CON	S
Diacetoxyscirpenol (DAS)	<10	µg / kg	-	-	SUB-CON	S
3-Acetyldeoxynivalenol (3AcDON)	<10	µg / kg	-	-	SUB-CON	S
15-Acetyldeoxynivalenol (15AcDON)	<10	µg / kg	-	-	SUB-CON	S
Fusarenone X (Fus X)	<10	µg / kg	-	-	SUB-CON	S
Nivalenol (NIV)	<10	µg / kg	-	-	SUB-CON	S
Neosolaniol (NEO)	<10	µg / kg	-	-	SUB-CON	S
T2 Toxin (T2)	<10	µg / kg	-	-	SUB-CON	S
HT2 Toxin (HT2)	<10	µg / kg	-	-	SUB-CON	S
T2-triol	<10	µg / kg	-	-	SUB-CON	S



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For and on Behalf of ALS Food and Pharmaceutical

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Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.

Unless otherwise stated, all results are expressed on an as received basis.

Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.

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Certificate Number: TCHC398031-1 Final	Lab Ref.: CHC567359
Mr Thomas O'Sullivan Advance Micro Services & Environmental Laboratories Ltd Carrigeen Industrial Estate Clonmel, Tipperary Ireland Fax: 052 61 78133	Date Analysis Started: 19/01/2017 Country of Origin: Date Reported: 01/02/2017

Commodity:

Sample Details: Desc: 2559273 Guayusa Leaf Tea Batch: IK004.
Order No: CGES-429120117
Date Received: 18/01/2017
Date Tested: 18/01/2017

Test	Result	Units	MRL	Rec. %	Method Number	Flag
<u>Mycotoxins</u>						
Deoxynivalenol (DON)	<10	µg / kg	-	-	SUB-CON	S
Diacetoxyscirpenol (DAS)	<10	µg / kg	-	-	SUB-CON	S
3-Acetyldeoxynivalenol (3AcDON)	<10	µg / kg	-	-	SUB-CON	S
15-Acetyldeoxynivalenol (15AcDON)	<10	µg / kg	-	-	SUB-CON	S
Fusarenone X (Fus X)	<10	µg / kg	-	-	SUB-CON	S
Nivalenol (NIV)	<10	µg / kg	-	-	SUB-CON	S
Neosolaniol (NEO)	<10	µg / kg	-	-	SUB-CON	S
T2 Toxin (T2)	<10	µg / kg	-	-	SUB-CON	S
HT2 Toxin (HT2)	<10	µg / kg	-	-	SUB-CON	S
T2-triol	<10	µg / kg	-	-	SUB-CON	S



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For and on Behalf of ALS Food and Pharmaceutical

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Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.

Unless otherwise stated, all results are expressed on an as received basis.

Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.

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Certificate Number: TCHC398032-1 Final	Lab Ref.: CHC567360
Mr Thomas O'Sullivan Advance Micro Services & Environmental Laboratories Ltd Carrigeen Industrial Estate Clonmel, Tipperary Ireland Fax: 052 61 78133	Date Analysis Started: 19/01/2017 Country of Origin: Date Reported: 01/02/2017

Commodity:

Sample Details: Desc: 2559274 Guayusa Leaf Tea Batch: IK005.
Order No: CGES-429120117
Date Received: 18/01/2017
Date Tested: 18/01/2017

Test	Result	Units	MRL	Rec. %	Method Number	Flag
Mycotoxins						
Deoxynivalenol (DON)	<10	µg / kg	-	-	SUB-CON	S
Diacetoxyscirpenol (DAS)	<10	µg / kg	-	-	SUB-CON	S
3-Acetyldeoxynivalenol (3AcDON)	<10	µg / kg	-	-	SUB-CON	S
15-Acetyldeoxynivalenol (15AcDON)	<10	µg / kg	-	-	SUB-CON	S
Fusarenone X (Fus X)	<10	µg / kg	-	-	SUB-CON	S
Nivalenol (NIV)	<10	µg / kg	-	-	SUB-CON	S
Neosolaniol (NEO)	<10	µg / kg	-	-	SUB-CON	S
T2 Toxin (T2)	<10	µg / kg	-	-	SUB-CON	S
HT2 Toxin (HT2)	<10	µg / kg	-	-	SUB-CON	S
T2-triol	<10	µg / kg	-	-	SUB-CON	S



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Section Head

For and on Behalf of ALS Food and Pharmaceutical

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Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

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Certificate Number: TCHC398033-1 Final	Lab Ref.: CHC567361
Mr Thomas O'Sullivan Advance Micro Services & Environmental Laboratories Ltd Carrigeen Industrial Estate Clonmel, Tipperary Ireland Fax: 052 61 78133	Date Analysis Started: 19/01/2017 Country of Origin: Date Reported: 01/02/2017

Commodity:

Sample Details: Desc: 2559275 Yerba Mate.
Order No: CGES-429120117
Date Received: 18/01/2017
Date Tested: 18/01/2017

Test	Result	Units	MRL	Rec. %	Method Number	Flag
<u>Mycotoxins</u>						
Deoxynivalenol (DON)	<10	µg / kg	-	-	SUB-CON	S
Diacetoxyscirpenol (DAS)	<10	µg / kg	-	-	SUB-CON	S
3-Acetyldeoxynivalenol (3AcDON)	<10	µg / kg	-	-	SUB-CON	S
15-Acetyldeoxynivalenol (15AcDON)	<10	µg / kg	-	-	SUB-CON	S
Fusarenone X (Fus X)	<10	µg / kg	-	-	SUB-CON	S
Nivalenol (NIV)	<10	µg / kg	-	-	SUB-CON	S
Neosolaniol (NEO)	<10	µg / kg	-	-	SUB-CON	S
T2 Toxin (T2)	<10	µg / kg	-	-	SUB-CON	S
HT2 Toxin (HT2)	<10	µg / kg	-	-	SUB-CON	S
T2-triol	<10	µg / kg	-	-	SUB-CON	S



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For and on Behalf of ALS Food and Pharmaceutical

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Rec. = Recovery efficiency of analytical method. The results on this certificate have not been corrected for recovery efficiency unless stated.

Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.

Unless otherwise stated, all results are expressed on an as received basis.

Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.

'S' Indicates a test which is sub-contracted to an approved laboratory holding ISO 17025 accreditation.



Certificate Number: TCHC398034-1 Final

Lab Ref.: CHC567362

Mr Thomas O'Sullivan
Advance Micro Services & Environmental
Laboratories Ltd
Carrigeen Industrial Estate
Clonmel, Tipperary
Ireland
Fax: 052 61 78133

Date Analysis Started: 19/01/2017

Country of Origin:
Date Reported: 27/01/2017

Commodity: Tea (dried leaves and stalks, fermented or otherwise of Camellia sinensis)

Sample Details: Desc: 2559276 Guayusa Leaf Tea Batch: IK001.

Order No: CGES-429120117

Date Received: 18/01/2017

Date Tested: 18/01/2017

Test	Result	Units	MRL	Rec. %	Method Number	Flag
<u>LCMS/MS Pesticide Screen</u>						
Abamectin	<0.01	mg / kg	0.05	-	AMR/1003	
Acetamiprid	<0.01	mg / kg	0.05	-	AMR/1003	
Acrinathrin	<0.01	mg / kg	0.05	-	AMR/1003	
Sum of aldicarb, aldicarb sulfoxide & sulfone (expressed as aldicarb)	<0.01	mg / kg	0.05	-	AMR/1003	
Allethrin	<0.01	mg / kg	-	-	AMR/1003	
Amicarbazone	<0.01	mg / kg	-	-	AMR/1003	
Aminocarb	<0.01	mg / kg	-	-	AMR/1003	
Atrazine	<0.01	mg / kg	0.1	-	AMR/1003	
Azaconazole	<0.01	mg / kg	-	-	AMR/1003	
Azamethiphos	<0.01	mg / kg	-	-	AMR/1003	
Beflubetamid	<0.01	mg / kg	0.05	-	AMR/1003	
Bendiocarb	<0.01	mg / kg	-	-	AMR/1003	
Benzoximate	<0.01	mg / kg	-	-	AMR/1003	
Bifenazate	<0.01	mg / kg	0.05	-	AMR/1003	
Bifenox	<0.01	mg / kg	0.05	-	AMR/1003	
Bixafen	<0.01	mg / kg	0.01	-	AMR/1003	
Boscalid	<0.01	mg / kg	0.01	-	AMR/1003	
Bromacil	<0.01	mg / kg	-	-	AMR/1003	
Buprofezin	<0.01	mg / kg	0.05	-	AMR/1003	
Butocarboxim	<0.01	mg / kg	-	-	AMR/1003	
Butralin	<0.01	mg / kg	0.05	-	AMR/1003	
Carbaryl	<0.01	mg / kg	0.05	-	AMR/1003	
Carbetamide	<0.01	mg / kg	0.05	-	AMR/1003	
Sum of carbofuran & 3-OH carbofuran (expressed as carbofuran)	<0.001	mg / kg	0.05	-	AMR/1003	
Carbosulfan	<0.01	mg / kg	0.05	-	AMR/1003	
Carboxin	<0.01	mg / kg	0.05	-	AMR/1003	
Carfentrazone-ethyl	<0.01	mg / kg	0.02	-	AMR/1003	
Chlorantraniliprole	<0.01	mg / kg	0.02	-	AMR/1003	
Chloridazon	<0.01	mg / kg	0.1	-	AMR/1003	
Chlortoluron	<0.01	mg / kg	0.05	-	AMR/1003	
Chlorthiophos	<0.01	mg / kg	-	-	AMR/1003	
Cinidon-ethyl	<0.01	mg / kg	0.1	-	AMR/1003	
Clofentezine	<0.01	mg / kg	0.05	-	AMR/1003	
Clomazone	<0.01	mg / kg	0.05	-	AMR/1003	
Clothianidin	<0.01	mg / kg	0.7	-	AMR/1003	
Coumaphos	<0.01	mg / kg	-	-	AMR/1003	
Cruformate	<0.01	mg / kg	-	-	AMR/1003	
Cyanazine	<0.01	mg / kg	-	-	AMR/1003	
Cyazofamid	<0.01	mg / kg	0.05	-	AMR/1003	
Cycloate	<0.01	mg / kg	-	-	AMR/1003	
Cycluron	<0.01	mg / kg	-	-	AMR/1003	
Cyflufenamid	<0.01	mg / kg	0.05	-	AMR/1003	
Cymiazole	<0.01	mg / kg	-	-	AMR/1003	
Cymoxanil	<0.01	mg / kg	0.05	-	AMR/1003	
DEET (N,N-dimethyl-m-toluamide)	<0.01	mg / kg	-	-	AMR/1003	

Certificate Number: TCHC398034-1 Final

Sample Ref.: CHC567362

Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Demeton-S-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Oxydemeton-methyl (sum of oxydemeton-me and dem-S-me sulfone as oxydemeton-me)	<0.01	mg / kg	0.05	-	AM/R/1003	
Desmedipham	<0.01	mg / kg	0.05	-	AM/R/1003	
Desmetryn	<0.01	mg / kg	-	-	AM/R/1003	
Dialifos	<0.01	mg / kg	-	-	AM/R/1003	
Diclofop-methyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Diclotophos	<0.01	mg / kg	-	-	AM/R/1003	
Diethofencarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Diiflubenzuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Diiflufenican	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethachlor	<0.01	mg / kg	0.02	-	AM/R/1003	
Dimethenamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of Dimethoate and Omethoate	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethomorph	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethylvinphos	<0.01	mg / kg	-	-	AM/R/1003	
Dimoxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Diniconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Dinotefuran	<0.01	mg / kg	-	-	AM/R/1003	
Dioxacarb	<0.01	mg / kg	-	-	AM/R/1003	
Diphenamid	<0.01	mg / kg	-	-	AM/R/1003	
Disulfoton (sum of disulfoton, sulfoxide and sulfone expressed as disulfoton)	<0.01	mg / kg	-	-	AM/R/1003	
Diuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Emamectin	<0.01	mg / kg	0.02	-	AM/R/1003	
Epoxiconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Ethidimuron (sulfodiazole)	<0.01	mg / kg	-	-	AM/R/1003	
Ethion	<0.01	mg / kg	3	-	AM/R/1003	
Ethofumesate	<0.01	mg / kg	0.1	-	AM/R/1003	
Ethoprophos	<0.01	mg / kg	0.02	-	AM/R/1003	
Etofenprox	<0.01	mg / kg	0.01	-	AM/R/1003	
Famoxadone	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenamidone	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of fenamiphos, fenamiphos sulfone and fenamiphos sulfoxide	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenarimol	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenazaquin	<0.01	mg / kg	10	-	AM/R/1003	
Fenbuconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenchlorphos oxon	<0.01	mg / kg	-	-	AM/R/1003	
Fenhexamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenobucarb	<0.01	mg / kg	-	-	AM/R/1003	
Fenoxaprop-P-ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Fenoxycarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenpropathrin	<0.01	mg / kg	2	-	AM/R/1003	
Fenpropidin	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenpyroximate	<0.01	mg / kg	0.1	-	AM/R/1003	
Sum of fenthion, fenthion sulfone and fenthion sulfoxide	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenuron	<0.01	mg / kg	-	-	AM/R/1003	
Fipronil	<0.005	mg / kg	0.005	-	AM/R/1003	
Flamprop isopropyl	<0.01	mg / kg	-	-	AM/R/1003	
Fonicamid (Parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Flubendiamide	<0.01	mg / kg	0.02	-	AM/R/1003	
Flucythrinate (sum of isomers)	<0.01	mg / kg	0.1	-	AM/R/1003	
Fludioxonil	<0.01	mg / kg	0.05	-	AM/R/1003	
Flufenacet	<0.01	mg / kg	0.05	-	AM/R/1003	
Flufenoxuron	<0.01	mg / kg	15	-	AM/R/1003	
Flumorph	<0.01	mg / kg	-	-	AM/R/1003	
Fluometuron	<0.01	mg / kg	0.02	-	AM/R/1003	
Fluopicolide	<0.01	mg / kg	0.02	-	AM/R/1003	
Fluoxastrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Fluquinconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Flurochloridone	<0.01	mg / kg	-	-	AM/R/1003	
Flurtamone	<0.01	mg / kg	0.05	-	AM/R/1003	
Flusilazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Flutolanil	<0.01	mg / kg	0.05	-	AM/R/1003	
Flutriafol	<0.01	mg / kg	0.05	-	AM/R/1003	



Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Formetanate hydrochloride	<0.01	mg / kg	0.05	-	AM/R/1003	
Formothion	<0.01	mg / kg	0.05	-	AM/R/1003	
Fosthiazate	<0.01	mg / kg	0.05	-	AM/R/1003	
Furalaxyl	<0.01	mg / kg	-	-	AM/R/1003	
Furathiocarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Guthion	<0.01	mg / kg	-	-	AM/R/1003	
Halofenozide	<0.01	mg / kg	-	-	AM/R/1003	
Haloxyp-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Hexaflumuron	<0.01	mg / kg	-	-	AM/R/1003	
Hexazinone	<0.01	mg / kg	4	-	AM/R/1003	
Hexythiazox	<0.01	mg / kg	-	-	AM/R/1003	
Imidacloprid	<0.01	mg / kg	0.05	-	AM/R/1003	
Indoxacarb	<0.01	mg / kg	5	-	AM/R/1003	
Ipoconazole	<0.01	mg / kg	0.02	-	AM/R/1003	
Iprobenfos	<0.01	mg / kg	-	-	AM/R/1003	
Iprovalicarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Isocarboxiphos	<0.01	mg / kg	-	-	AM/R/1003	
Isfenphos-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Isoprothiolane	<0.01	mg / kg	0.01	-	AM/R/1003	
Isoproturon	<0.01	mg / kg	0.05	-	AM/R/1003	
Isopyrazam	<0.01	mg / kg	0.01	-	AM/R/1003	
Isoxaben	<0.01	mg / kg	0.02	-	AM/R/1003	
Isoxaflutole (parent)	<0.01	mg / kg	0.1	-	AM/R/1003	
Ivermectin	<0.01	mg / kg	-	-	AM/R/1003	
Lenacil	<0.01	mg / kg	0.1	-	AM/R/1003	
Linuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Lufenuron	<0.01	mg / kg	0.02	-	AM/R/1003	
Sum of malathion and malaoxon (expressed as malathion)	<0.01	mg / kg	0.5	-	AM/R/1003	
Mandipropamid	<0.01	mg / kg	0.02	-	AM/R/1003	
Mecarbam	<0.01	mg / kg	0.1	-	AM/R/1003	
Mephantholol	<0.01	mg / kg	-	-	AM/R/1003	
Mepropril	<0.01	mg / kg	0.05	-	AM/R/1003	
Metaflumizone	<0.01	mg / kg	0.1	-	AM/R/1003	
Metamitron	<0.01	mg / kg	0.1	-	AM/R/1003	
Metazachlor (Parent Only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Metconazole	<0.01	mg / kg	0.1	-	AM/R/1003	
Methabenzthiazuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Methacryfos	<0.01	mg / kg	0.1	-	AM/R/1003	
Methiocarb (sum of methiocarb, sulfoxide and sulfone as methiocarb)	<0.01	mg / kg	0.1	-	AM/R/1003	
Sum of methomyl and thiodicarb	<0.01	mg / kg	0.1	-	AM/R/1003	
Methoprotryne	<0.01	mg / kg	-	-	AM/R/1003	
Methoxyfenozide	<0.01	mg / kg	0.05	-	AM/R/1003	
Metobromuron	<0.01	mg / kg	-	-	AM/R/1003	
Metolachlor	<0.01	mg / kg	0.05	-	AM/R/1003	
Metolcarb	<0.01	mg / kg	-	-	AM/R/1003	
Metoxuron	<0.01	mg / kg	-	-	AM/R/1003	
Metrafenone	<0.01	mg / kg	0.05	-	AM/R/1003	
Mevinphos	<0.01	mg / kg	0.02	-	AM/R/1003	
Mexacarbate	<0.01	mg / kg	-	-	AM/R/1003	
Molinate	<0.01	mg / kg	0.05	-	AM/R/1003	
Monolinuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Monuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Moxidectin	<0.01	mg / kg	-	-	AM/R/1003	
Napropamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Nitenpyram	<0.01	mg / kg	-	-	AM/R/1003	
Norflurazon	<0.01	mg / kg	-	-	AM/R/1003	
Novaluron	<0.01	mg / kg	0.01	-	AM/R/1003	
Oxadiazon	<0.01	mg / kg	0.05	-	AM/R/1003	
Oxamyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Paclobutrazol	<0.01	mg / kg	0.02	-	AM/R/1003	
Paraoxon	<0.01	mg / kg	-	-	AM/R/1003	
Paraoxon methyl	<0.01	mg / kg	-	-	AM/R/1003	
Pencycuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Penthiopyrad	<0.01	mg / kg	0.02	-	AM/R/1003	
Pethoxamid	<0.01	mg / kg	0.05	-	AM/R/1003	



Certificate Number: TCHC398034-1 Final

Sample Ref.: CHC567362

Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Phenmedipham	<0.01	mg / kg	0.05	-	AM/R/1003	
Phenothrin	<0.01	mg / kg	0.05	-	AM/R/1003	
Phenthoate	<0.01	mg / kg	-	-	AM/R/1003	
Phorate (sum of phorate, sulfoxide and sulfone expressed as phorate)	<0.01	mg / kg	0.05	-	AM/R/1003	
Phosalone	<0.01	mg / kg	0.05	-	AM/R/1003	
Phosfolan	<0.01	mg / kg	-	-	AM/R/1003	
Phosmet	<0.01	mg / kg	0.1	-	AM/R/1003	
Phoxim	<0.01	mg / kg	0.1	-	AM/R/1003	
Picolinafen	<0.01	mg / kg	0.05	-	AM/R/1003	
Picoxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Pinoxaden	<0.01	mg / kg	0.05	-	AM/R/1003	
Piperonyl Butoxide	<0.01	mg / kg	-	-	AM/R/1003	
Pirimicarb	<0.01	mg / kg	0.05	-	AM/R/1003	
desmethyl Pirimicarb	<0.01	mg / kg	-	-	AM/R/1003	
Sum of pirimicarb and desmethyl pirimicarb (expressed as pirimicarb)	<0.01	mg / kg	0.05	-	AM/R/1003	
Prochloraz (parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Profenofos	<0.01	mg / kg	0.05	-	AM/R/1003	
Promecarb	<0.01	mg / kg	-	-	AM/R/1003	
Prometon	<0.01	mg / kg	-	-	AM/R/1003	
Prometryn	<0.01	mg / kg	-	-	AM/R/1003	
Propamocarb Hydrochloride	<0.01	mg / kg	0.05	-	AM/R/1003	
Propanil	<0.01	mg / kg	0.05	-	AM/R/1003	
Propaquizafop	<0.01	mg / kg	0.05	-	AM/R/1003	
Propargite	<0.01	mg / kg	0.05	-	AM/R/1003	
Propazine	<0.01	mg / kg	-	-	AM/R/1003	
Propelamphos	<0.01	mg / kg	-	-	AM/R/1003	
Propham	<0.01	mg / kg	0.1	-	AM/R/1003	
Propiconazole	<0.01	mg / kg	0.1	-	AM/R/1003	
Propoxur	<0.01	mg / kg	0.1	-	AM/R/1003	
Propyzamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Proquinazid	<0.01	mg / kg	0.05	-	AM/R/1003	
Prosulfocarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Prothioconazole-desthio	<0.01	mg / kg	0.05	-	AM/R/1003	
Pyracarbolid	<0.01	mg / kg	-	-	AM/R/1003	
Pyraclostrobin	<0.01	mg / kg	0.1	-	AM/R/1003	
Pyraflufen ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Pyridaben	<0.01	mg / kg	0.05	-	AM/R/1003	
Pyrifenox	<0.01	mg / kg	-	-	AM/R/1003	
Pyriproxifen	<0.01	mg / kg	15	-	AM/R/1003	
Quassin (quassia)	<0.01	mg / kg	-	-	AM/R/1003	
Quinalphos	<0.01	mg / kg	0.1	-	AM/R/1003	
Quinoxifen	<0.01	mg / kg	0.05	-	AM/R/1003	
Quizalofop ethyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Resmethrin	<0.01	mg / kg	0.2	-	AM/R/1003	
Rotenone	<0.01	mg / kg	0.02	-	AM/R/1003	
Silthiofam	<0.01	mg / kg	0.05	-	AM/R/1003	
Simazine	<0.01	mg / kg	0.05	-	AM/R/1003	
Spinetoram	<0.01	mg / kg	0.1	-	AM/R/1003	
Spinosad	<0.01	mg / kg	0.1	-	AM/R/1003	
Spirodiclofen	<0.01	mg / kg	0.05	-	AM/R/1003	
Spiromesifen	<0.01	mg / kg	50	-	AM/R/1003	
Spirotetramat (parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Spiroxamine	<0.01	mg / kg	0.1	-	AM/R/1003	
tau-Fluvalinate	<0.01	mg / kg	0.01	-	AM/R/1003	
Tebufenozide	<0.01	mg / kg	0.1	-	AM/R/1003	
Tebufenpyrad	<0.01	mg / kg	0.1	-	AM/R/1003	
Tebupirimfos	<0.01	mg / kg	-	-	AM/R/1003	
Tebuthiuron	<0.01	mg / kg	-	-	AM/R/1003	
Temephos	<0.01	mg / kg	-	-	AM/R/1003	
Terbufos	<0.01	mg / kg	0.01	-	AM/R/1003	
Terbufos sulfone	<0.01	mg / kg	-	-	AM/R/1003	
Terbufos sulfoxide	<0.01	mg / kg	-	-	AM/R/1003	
Terbutylazine	<0.01	mg / kg	0.05	-	AM/R/1003	
Terbutryn	<0.01	mg / kg	-	-	AM/R/1003	
Tetraconazole	<0.01	mg / kg	0.02	-	AM/R/1003	



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Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Tetramethrin	<0.01	mg / kg	-	-	AM/R/1003	
Thiacloprid	<0.01	mg / kg	10	-	AM/R/1003	
Thiamethoxam	<0.01	mg / kg	20	-	AM/R/1003	
Thiobencarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Thiophanate-Methyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Tolclofos-methyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Triazophos	<0.01	mg / kg	0.02	-	AM/R/1003	
Trichlorfon	<0.01	mg / kg	0.05	-	AM/R/1003	
Tridemorph	<0.01	mg / kg	0.05	-	AM/R/1003	
Trietazine	<0.01	mg / kg	-	-	AM/R/1003	
Trifloxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Triflumizole	<0.01	mg / kg	0.1	-	AM/R/1003	
Triflumuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Trimethacarb	<0.01	mg / kg	-	-	AM/R/1003	
Triticonazole	<0.01	mg / kg	0.02	-	AM/R/1003	
Uniconazole	<0.01	mg / kg	-	-	AM/R/1003	
Vamidothion	<0.01	mg / kg	-	-	AM/R/1003	
Vernolate	<0.01	mg / kg	-	-	AM/R/1003	
XMC (3,5-xyllyl methylcarbamate)	<0.01	mg / kg	-	-	AM/R/1003	
Zoxamide	<0.01	mg / kg	0.05	-	AM/R/1003	
GC Pesticide Screen						
Acephate	<0.01	mg / kg	0.05	-	AM/R/110	
Aldrin	<0.01	mg / kg	-	-	AM/R/110	
Atrazine	<0.05	mg / kg	0.1	-	AM/R/110	
Azinphos-ethyl	<0.01	mg / kg	0.05	-	AM/R/110	
Azinphos-methyl	<0.01	mg / kg	0.1	-	AM/R/110	
Azoxystrobin	<0.01	mg / kg	0.05	-	AM/R/110	
Benalaxyl	<0.05	mg / kg	0.1	-	AM/R/110	
Bifenthrin	<0.02	mg / kg	5	-	AM/R/110	
Bromophos	<0.01	mg / kg	-	-	AM/R/110	
Bromophos-ethyl	<0.05	mg / kg	0.1	-	AM/R/110	
Bupirimate	<0.02	mg / kg	0.05	-	AM/R/110	
Buprofezin	<0.05	mg / kg	0.05	-	AM/R/110	
Cadusaphos	<0.01	mg / kg	0.01	-	AM/R/110	
Carbofuran (parent compound only)	<0.01	mg / kg	0.05	-	AM/R/110	
Carbophenothion	<0.01	mg / kg	-	-	AM/R/110	
Carbosulfan	<0.01	mg / kg	0.05	-	AM/R/110	
Chlordane (sum of cis & trans isomers)	<0.01	mg / kg	0.02	-	AM/R/110	
Chlorfenvinphos	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorfenvinphos	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorothalonil	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorpropham	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorpyrifos	<0.01	mg / kg	0.1	-	AM/R/110	
Chlorpyrifos-methyl	<0.01	mg / kg	0.1	-	AM/R/110	
Chlorthal-dimethyl	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorthion	<0.05	mg / kg	-	-	AM/R/110	
Cyanazine	<0.05	mg / kg	-	-	AM/R/110	
Cyfluthrin (sum of isomers)	<0.02	mg / kg	0.1	-	AM/R/110	
Cyhalothrin - lambda	<0.02	mg / kg	1	-	AM/R/110	
Cypermethrin (sum of isomers)	<0.05	mg / kg	0.5	-	AM/R/110	
Cyproconazole	<0.05	mg / kg	0.05	-	AM/R/110	
DDT (sum of pp'-DDE,pp'-DDD,op'-DDT & pp'-DDT expressed as DDT)	<0.02	mg / kg	0.2	-	AM/R/110	
Deltamethrin	<0.05	mg / kg	5	-	AM/R/110	
Desmetyrn	<0.05	mg / kg	-	-	AM/R/110	
Diazinon	<0.01	mg / kg	0.05	-	AM/R/110	
Dichlofluanid	<0.05	mg / kg	-	-	AM/R/110	
Dichlorvos	<0.01	mg / kg	0.02	-	AM/R/110	
Dicofol	<0.02	mg / kg	20	-	AM/R/110	
Dieldrin	<0.01	mg / kg	-	-	AM/R/110	
Sum of Aldrin and Dieldrin (expressed as Dieldrin)	<0.01	mg / kg	0.02	-	AM/R/110	
Difenoconazole	<0.05	mg / kg	0.05	-	AM/R/110	
Sum of Dimethoate and Omethoate	<0.02	mg / kg	0.05	-	AM/R/110	
Diphenylamine	<0.05	mg / kg	0.05	-	AM/R/110	
Endosulfan (sum of alpha and beta isomers and endosulfan sulphate)	<0.02	mg / kg	30	-	AM/R/110	



Test	Result	Units	MRL	Rec. %	Method Number	Flag
GC Pesticide Screen						
Endrin	<0.01	mg / kg	0.01	-	AM/R/110	
Ethion	<0.01	mg / kg	3	-	AM/R/110	
Ethoprophos	<0.01	mg / kg	0.02	-	AM/R/110	
Etridiazole	<0.05	mg / kg	0.05	-	AM/R/110	
Etrimfos	<0.01	mg / kg	-	-	AM/R/110	
Fenarimol	<0.02	mg / kg	0.05	-	AM/R/110	
Fenchlorphos (parent compound only)	<0.01	mg / kg	0.1	-	AM/R/110	
Fenitrothion	<0.01	mg / kg	0.05	-	AM/R/110	
Fenvalerate (sum of RR, SS, SR and RS isomers) including esfenvalerate	<0.02	mg / kg	0.1	-	AM/R/110	
Fluazifop-p-butyl	<0.05	mg / kg	0.05	-	AM/R/110	
Flucythrinate (sum of isomers)	<0.05	mg / kg	0.1	-	AM/R/110	
Fonofos	<0.01	mg / kg	-	-	AM/R/110	
Heptachlor (sum of heptachlor & heptachlor epoxide expressed as heptachlor)	<0.01	mg / kg	0.02	-	AM/R/110	
Heptenophos	<0.01	mg / kg	-	-	AM/R/110	
HCB	<0.01	mg / kg	0.02	-	AM/R/110	
Hexachlorocyclohexane - gamma	<0.01	mg / kg	0.05	-	AM/R/110	
Hexachlorocyclohexane - Sum of isomers other than gamma	<0.01	mg / kg	0.02	-	AM/R/110	
Hexaconazole	<0.01	mg / kg	0.05	-	AM/R/110	
Imazalil	<0.02	mg / kg	0.1	-	AM/R/110	
Iodofenphos	<0.05	mg / kg	-	-	AM/R/110	
Iprodione	<0.01	mg / kg	0.05	-	AM/R/110	
Kresoxim-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Malathion (parent compound only)	<0.02	mg / kg	0.5	-	AM/R/110	
Metalaxyl and metalaxyl-M (sum of isomers)	<0.02	mg / kg	0.1	-	AM/R/110	
Methacrifos	<0.01	mg / kg	0.1	-	AM/R/110	
Methamidophos	<0.01	mg / kg	0.05	-	AM/R/110	
Methidathion	<0.02	mg / kg	0.1	-	AM/R/110	
Methoxychlor	<0.01	mg / kg	0.1	-	AM/R/110	
Metribuzin	<0.05	mg / kg	0.1	-	AM/R/110	
Mevinphos	<0.01	mg / kg	0.02	-	AM/R/110	
Oxadixyl	<0.01	mg / kg	0.02	-	AM/R/110	
Parathion	<0.01	mg / kg	0.1	-	AM/R/110	
Parathion-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Penconazole	<0.05	mg / kg	0.1	-	AM/R/110	
Pendimethalin	<0.05	mg / kg	0.05	-	AM/R/110	
Permethrin (sum of isomers)	<0.05	mg / kg	0.1	-	AM/R/110	
Phosalone	<0.01	mg / kg	0.05	-	AM/R/110	
Phosmet	<0.05	mg / kg	0.1	-	AM/R/110	
Phosphamidon	<0.01	mg / kg	0.02	-	AM/R/110	
Pirimicarb	<0.01	mg / kg	0.05	-	AM/R/110	
Pirimiphos-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Procymidone	<0.01	mg / kg	0.05	-	AM/R/110	
Prometryn	<0.05	mg / kg	-	-	AM/R/110	
Propachlor	<0.02	mg / kg	0.1	-	AM/R/110	
Propham	<0.05	mg / kg	0.1	-	AM/R/110	
Propiconazole	<0.05	mg / kg	0.1	-	AM/R/110	
Propyzamide	<0.01	mg / kg	0.05	-	AM/R/110	
Quinalphos	<0.02	mg / kg	0.1	-	AM/R/110	
Quintozene (sum of quintozene & pentachloroaniline expressed as quintozene)	<0.01	mg / kg	0.1	-	AM/R/110	
Simazine	<0.01	mg / kg	0.05	-	AM/R/110	
Sulfotep	<0.01	mg / kg	-	-	AM/R/110	
Tebuconazole	<0.02	mg / kg	0.05	-	AM/R/110	
Tecnazene	<0.02	mg / kg	0.1	-	AM/R/110	
Tefluthrin	<0.01	mg / kg	0.05	-	AM/R/110	
Terbutylazine	<0.05	mg / kg	0.05	-	AM/R/110	
Terbutryn	<0.05	mg / kg	-	-	AM/R/110	
Tetradifon	<0.01	mg / kg	0.05	-	AM/R/110	
Tolclofos-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Tolyfluanid	<0.01	mg / kg	0.05	-	AM/R/110	
Sum of Triadimefon and Triadimenol	<0.02	mg / kg	0.2	-	AM/R/110	
Triazophos	<0.01	mg / kg	0.02	-	AM/R/110	
Trifluralin	<0.01	mg / kg	0.05	-	AM/R/110	



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Sample Ref.: CHC567362

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Test	Result	Units	MRL	Rec. %	Method Number	Flag
<u>GC Pesticide Screen</u>						
Vinclozolin (parent compound only)	<0.05	mg / kg	0.1	-	AM/R/110	



Jonathan Bruss

Section Head

For and on Behalf of ALS Food and Pharmaceutical

Disclaimers:

MRL = UK Maximum Residue Level for Tea (dried leaves and stalks, fermented or otherwise of *Camellia sinensis*)

Rec. = Recovery efficiency of analytical method. The results on this certificate have not been corrected for recovery efficiency unless stated.

Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.

Unless otherwise stated, all results are expressed on an as received basis.

Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.



Certificate Number: TCHC398035-1 Final

Lab Ref.: CHC567363

Mr Thomas O'Sullivan
Advance Micro Services & Environmental
Laboratories Ltd
Carrigeen Industrial Estate
Clonmel, Tipperary
Ireland
Fax: 052 61 78133

Date Analysis Started: 19/01/2017
Country of Origin:
Date Reported: 27/01/2017

Commodity: Tea (dried leaves and stalks, fermented or otherwise of Camellia sinensis)

Sample Details: Desc: 2559277 Guayusa Leaf Tea Batch: IK002.

Order No: CGES-429120117

Date Received: 18/01/2017

Date Tested: 18/01/2017

Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Abamectin	<0.01	mg / kg	0.05	-	AM/R/1003	
Acetamiprid	<0.01	mg / kg	0.05	-	AM/R/1003	
Acrinathrin	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of aldicarb, aldicarb sulfoxide & sulfone (expressed as aldicarb)	<0.01	mg / kg	0.05	-	AM/R/1003	
Allethrin	<0.01	mg / kg	-	-	AM/R/1003	
Amicarbazone	<0.01	mg / kg	-	-	AM/R/1003	
Aminocarb	<0.01	mg / kg	-	-	AM/R/1003	
Atrazine	<0.01	mg / kg	0.1	-	AM/R/1003	
Azaconazole	<0.01	mg / kg	-	-	AM/R/1003	
Azamethiphos	<0.01	mg / kg	0.05	-	AM/R/1003	
Beflubetamid	<0.01	mg / kg	-	-	AM/R/1003	
Bendiocarb	<0.01	mg / kg	-	-	AM/R/1003	
Benzoximate	<0.01	mg / kg	0.05	-	AM/R/1003	
Bifenazate	<0.01	mg / kg	0.05	-	AM/R/1003	
Bifenox	<0.01	mg / kg	0.05	-	AM/R/1003	
Bixafen	<0.01	mg / kg	0.01	-	AM/R/1003	
Boscalid	<0.01	mg / kg	0.01	-	AM/R/1003	
Bromacil	<0.01	mg / kg	-	-	AM/R/1003	
Buprofezin	<0.01	mg / kg	0.05	-	AM/R/1003	
Butocarboxim	<0.01	mg / kg	-	-	AM/R/1003	
Butralin	<0.01	mg / kg	0.05	-	AM/R/1003	
Carbaryl	<0.01	mg / kg	0.05	-	AM/R/1003	
Carbetamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of carbofuran & 3-OH carbofuran (expressed as carbofuran)	<0.001	mg / kg	0.05	-	AM/R/1003	
Carbosulfan	<0.01	mg / kg	0.05	-	AM/R/1003	
Carboxin	<0.01	mg / kg	0.05	-	AM/R/1003	
Carfentrazone-ethyl	<0.01	mg / kg	0.02	-	AM/R/1003	
Chlorantraniliprole	<0.01	mg / kg	0.02	-	AM/R/1003	
Chloridazon	<0.01	mg / kg	0.1	-	AM/R/1003	
Chlortoluron	<0.01	mg / kg	0.05	-	AM/R/1003	
Chlorthiophos	<0.01	mg / kg	-	-	AM/R/1003	
Cinidon-ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Clofentezine	<0.01	mg / kg	0.05	-	AM/R/1003	
Clomazone	<0.01	mg / kg	0.05	-	AM/R/1003	
Clothianidin	<0.01	mg / kg	0.7	-	AM/R/1003	
Coumaphos	<0.01	mg / kg	-	-	AM/R/1003	
Cruformate	<0.01	mg / kg	-	-	AM/R/1003	
Cyanazine	<0.01	mg / kg	-	-	AM/R/1003	
Cyazofamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Cycloate	<0.01	mg / kg	-	-	AM/R/1003	
Cycluron	<0.01	mg / kg	-	-	AM/R/1003	
Cyflufenamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Cymiazole	<0.01	mg / kg	-	-	AM/R/1003	
Cymoxanil	<0.01	mg / kg	0.05	-	AM/R/1003	
DEET (N,N-dimethyl-m-toluamide)	<0.01	mg / kg	-	-	AM/R/1003	



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Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Demeton-S-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Oxydemeton-methyl (sum of oxydemeton-me and dem-S-me sulfone as oxydemeton-me)	<0.01	mg / kg	0.05	-	AM/R/1003	
Desmedipham	<0.01	mg / kg	0.05	-	AM/R/1003	
Desmetryn	<0.01	mg / kg	-	-	AM/R/1003	
Dialifos	<0.01	mg / kg	-	-	AM/R/1003	
Diclofop-methyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Dicrotophos	<0.01	mg / kg	-	-	AM/R/1003	
Diethofencarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Diffubenzuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Diffenican	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethachlor	<0.01	mg / kg	0.02	-	AM/R/1003	
Dimethenamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of Dimethoate and Omethoate	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethomorph	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethylvinphos	<0.01	mg / kg	-	-	AM/R/1003	
Dimoxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Diniconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Dinotefuran	<0.01	mg / kg	-	-	AM/R/1003	
Dioxacarb	<0.01	mg / kg	-	-	AM/R/1003	
Diphenamid	<0.01	mg / kg	-	-	AM/R/1003	
Disulfoton (sum of disulfoton, sulfoxide and sulfone expressed as disulfoton)	<0.01	mg / kg	-	-	AM/R/1003	
Diuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Emamectin	<0.01	mg / kg	0.02	-	AM/R/1003	
Epoxiconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Ethidimuron (sulfodiazole)	<0.01	mg / kg	-	-	AM/R/1003	
Ethion	<0.01	mg / kg	3	-	AM/R/1003	
Ethofumesate	<0.01	mg / kg	0.1	-	AM/R/1003	
Ethoprophos	<0.01	mg / kg	0.02	-	AM/R/1003	
Etofenprox	<0.01	mg / kg	0.01	-	AM/R/1003	
Famoxadone	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenamidone	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of fenamiphos, fenamiphos sulfone and fenamiphos sulfoxide	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenarimol	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenazaquin	<0.01	mg / kg	10	-	AM/R/1003	
Fenbuconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenchlorphos oxon	<0.01	mg / kg	-	-	AM/R/1003	
Fenhexamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenobucarb	<0.01	mg / kg	-	-	AM/R/1003	
Fenoxaprop-P-ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Fenoxycarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenpropathrin	<0.01	mg / kg	2	-	AM/R/1003	
Fenpropidin	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenpyroximate	<0.01	mg / kg	0.1	-	AM/R/1003	
Sum of fenthion, fenthion sulfone and fenthion sulfoxide	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenuron	<0.01	mg / kg	-	-	AM/R/1003	
Fipronil	<0.005	mg / kg	0.005	-	AM/R/1003	
Flamprop isopropyl	<0.01	mg / kg	-	-	AM/R/1003	
Flonicamid (Parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Flubendiamide	<0.01	mg / kg	0.02	-	AM/R/1003	
Flucythrinate (sum of isomers)	<0.01	mg / kg	0.1	-	AM/R/1003	
Fludioxonil	<0.01	mg / kg	0.05	-	AM/R/1003	
Flufenacet	<0.01	mg / kg	0.05	-	AM/R/1003	
Flufenoxuron	<0.01	mg / kg	15	-	AM/R/1003	
Flumorph	<0.01	mg / kg	-	-	AM/R/1003	
Fluometuron	<0.01	mg / kg	0.02	-	AM/R/1003	
Fluopicolide	<0.01	mg / kg	0.02	-	AM/R/1003	
Fluoxastrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Fluquinconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Flurochloridone	<0.01	mg / kg	-	-	AM/R/1003	
Flurtamone	<0.01	mg / kg	0.05	-	AM/R/1003	
Flusilazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Flutolanil	<0.01	mg / kg	0.05	-	AM/R/1003	
Flutriafol	<0.01	mg / kg	0.05	-	AM/R/1003	



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Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Formetanate hydrochloride	<0.01	mg / kg	0.05	-	AM/R/1003	
Formothion	<0.01	mg / kg	0.05	-	AM/R/1003	
Fosthiazate	<0.01	mg / kg	0.05	-	AM/R/1003	
Furalaxyl	<0.01	mg / kg	-	-	AM/R/1003	
Furathiocarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Guthion	<0.01	mg / kg	-	-	AM/R/1003	
Halofenozide	<0.01	mg / kg	-	-	AM/R/1003	
Haloxypop-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Hexaflumuron	<0.01	mg / kg	-	-	AM/R/1003	
Hexazinone	<0.01	mg / kg	-	-	AM/R/1003	
Hexythiazox	<0.01	mg / kg	4	-	AM/R/1003	
Imidacloprid	<0.01	mg / kg	0.05	-	AM/R/1003	
Indoxacarb	<0.01	mg / kg	5	-	AM/R/1003	
Ipconazole	<0.01	mg / kg	0.02	-	AM/R/1003	
Iprobenfos	<0.01	mg / kg	-	-	AM/R/1003	
Iprovalicarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Isocarbophos	<0.01	mg / kg	-	-	AM/R/1003	
Isolenphos-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Isoprothiolane	<0.01	mg / kg	0.01	-	AM/R/1003	
Isoproturon	<0.01	mg / kg	0.05	-	AM/R/1003	
Isopyrazam	<0.01	mg / kg	0.01	-	AM/R/1003	
Isoxaben	<0.01	mg / kg	0.02	-	AM/R/1003	
Isoxaflutole (parent)	<0.01	mg / kg	0.1	-	AM/R/1003	
Ivermectin	<0.01	mg / kg	-	-	AM/R/1003	
Lenacil	<0.01	mg / kg	0.1	-	AM/R/1003	
Linuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Lufenuron	<0.01	mg / kg	0.02	-	AM/R/1003	
Sum of malathion and malaoxon (expressed as malathion)	<0.01	mg / kg	0.5	-	AM/R/1003	
Mandipropamid	<0.01	mg / kg	0.02	-	AM/R/1003	
Mecarbam	<0.01	mg / kg	0.1	-	AM/R/1003	
Meprosfolan	<0.01	mg / kg	-	-	AM/R/1003	
Mepronil	<0.01	mg / kg	0.05	-	AM/R/1003	
Metaflumizone	<0.01	mg / kg	0.1	-	AM/R/1003	
Metamitron	<0.01	mg / kg	0.1	-	AM/R/1003	
Metazachlor (Parent Only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Metconazole	<0.01	mg / kg	0.1	-	AM/R/1003	
Methabenzthiazuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Methacrifos	<0.01	mg / kg	0.1	-	AM/R/1003	
Methiocarb (sum of methiocarb, sulfoxide and sulfone as methiocarb)	<0.01	mg / kg	0.1	-	AM/R/1003	
Sum of methomyl and thiodicarb	<0.01	mg / kg	0.1	-	AM/R/1003	
Methoprotryne	<0.01	mg / kg	-	-	AM/R/1003	
Methoxyfenozide	<0.01	mg / kg	0.05	-	AM/R/1003	
Metobromuron	<0.01	mg / kg	-	-	AM/R/1003	
Metolachlor	<0.01	mg / kg	0.05	-	AM/R/1003	
Metolcarb	<0.01	mg / kg	-	-	AM/R/1003	
Metoxuron	<0.01	mg / kg	-	-	AM/R/1003	
Metrafenone	<0.01	mg / kg	0.05	-	AM/R/1003	
Mevinphos	<0.01	mg / kg	0.02	-	AM/R/1003	
Mexacarbate	<0.01	mg / kg	-	-	AM/R/1003	
Molinate	<0.01	mg / kg	0.05	-	AM/R/1003	
Monolinuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Monuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Moxidectin	<0.01	mg / kg	-	-	AM/R/1003	
Napropamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Nitenpyram	<0.01	mg / kg	-	-	AM/R/1003	
Norflurazon	<0.01	mg / kg	-	-	AM/R/1003	
Novaluron	<0.01	mg / kg	0.01	-	AM/R/1003	
Oxadiazon	<0.01	mg / kg	0.05	-	AM/R/1003	
Oxamyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Paclobutrazol	<0.01	mg / kg	0.02	-	AM/R/1003	
Paraoxon	<0.01	mg / kg	-	-	AM/R/1003	
Paraoxon methyl	<0.01	mg / kg	-	-	AM/R/1003	
Pencycuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Penthiopyrad	<0.01	mg / kg	0.02	-	AM/R/1003	
Pethoxamid	<0.01	mg / kg	0.05	-	AM/R/1003	

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Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Phenmedipham	<0.01	mg / kg	0.05	-	AM/R/1003	
Phenothrin	<0.01	mg / kg	0.05	-	AM/R/1003	
Phenthoate	<0.01	mg / kg	-	-	AM/R/1003	
Phorate (sum of phorate, sulfoxide and sulfone expressed as phorate)	<0.01	mg / kg	0.05	-	AM/R/1003	
Phosalone	<0.01	mg / kg	0.05	-	AM/R/1003	
Phosfolan	<0.01	mg / kg	-	-	AM/R/1003	
Phosmet	<0.01	mg / kg	0.1	-	AM/R/1003	
Phoxim	<0.01	mg / kg	0.1	-	AM/R/1003	
Picolinafen	<0.01	mg / kg	0.05	-	AM/R/1003	
Picoxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Pinoxaden	<0.01	mg / kg	0.05	-	AM/R/1003	
Piperonyl Butoxide	<0.01	mg / kg	-	-	AM/R/1003	
Pirimicarb	<0.01	mg / kg	0.05	-	AM/R/1003	
desmethyl Pirimicarb	<0.01	mg / kg	-	-	AM/R/1003	
Sum of pirimicarb and desmethyl pirimicarb (expressed as pirimicarb)	<0.01	mg / kg	0.05	-	AM/R/1003	
Prochloraz (parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Profenofos	<0.01	mg / kg	0.05	-	AM/R/1003	
Promecarb	<0.01	mg / kg	-	-	AM/R/1003	
Prometon	<0.01	mg / kg	-	-	AM/R/1003	
Prometryn	<0.01	mg / kg	-	-	AM/R/1003	
Propamocarb Hydrochloride	<0.01	mg / kg	0.05	-	AM/R/1003	
Propanil	<0.01	mg / kg	0.05	-	AM/R/1003	
Propaquizafop	<0.01	mg / kg	0.05	-	AM/R/1003	
Propargite	<0.01	mg / kg	0.05	-	AM/R/1003	
Propazine	<0.01	mg / kg	-	-	AM/R/1003	
Propetamphos	<0.01	mg / kg	-	-	AM/R/1003	
Propham	<0.01	mg / kg	0.1	-	AM/R/1003	
Propiconazole	<0.01	mg / kg	0.1	-	AM/R/1003	
Propoxur	<0.01	mg / kg	0.1	-	AM/R/1003	
Propyzamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Proquinazid	<0.01	mg / kg	0.05	-	AM/R/1003	
Prosulfocarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Prothioconazole-desthio	<0.01	mg / kg	0.05	-	AM/R/1003	
Pyracarbolid	<0.01	mg / kg	-	-	AM/R/1003	
Pyraclostrobin	<0.01	mg / kg	0.1	-	AM/R/1003	
Pyraflufen ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Pyridaben	<0.01	mg / kg	0.05	-	AM/R/1003	
Pyrifenox	<0.01	mg / kg	-	-	AM/R/1003	
Pyriproxifen	<0.01	mg / kg	15	-	AM/R/1003	
Quassin (quassia)	<0.01	mg / kg	-	-	AM/R/1003	
Quinalphos	<0.01	mg / kg	0.1	-	AM/R/1003	
Quinoxifen	<0.01	mg / kg	0.05	-	AM/R/1003	
Quizalofop ethyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Resmethrin	<0.01	mg / kg	0.2	-	AM/R/1003	
Rotenone	<0.01	mg / kg	0.02	-	AM/R/1003	
Silthiofam	<0.01	mg / kg	0.05	-	AM/R/1003	
Simazine	<0.01	mg / kg	0.05	-	AM/R/1003	
Spinetoram	<0.01	mg / kg	0.1	-	AM/R/1003	
Spinosad	<0.01	mg / kg	0.1	-	AM/R/1003	
Spirodiclofen	<0.01	mg / kg	0.05	-	AM/R/1003	
Spiromesifen	<0.01	mg / kg	50	-	AM/R/1003	
Spirotetramat (parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Spiroxamine	<0.01	mg / kg	0.1	-	AM/R/1003	
tau-Fluvalinate	<0.01	mg / kg	0.01	-	AM/R/1003	
Tebufenozide	<0.01	mg / kg	0.1	-	AM/R/1003	
Tebufenpyrad	<0.01	mg / kg	0.1	-	AM/R/1003	
Tebupirimfos	<0.01	mg / kg	-	-	AM/R/1003	
Tebuthiuron	<0.01	mg / kg	-	-	AM/R/1003	
Temephos	<0.01	mg / kg	-	-	AM/R/1003	
Terbufos	<0.01	mg / kg	0.01	-	AM/R/1003	
Terbufos sulfone	<0.01	mg / kg	-	-	AM/R/1003	
Terbufos sulfoxide	<0.01	mg / kg	-	-	AM/R/1003	
Terbutylazine	<0.01	mg / kg	0.05	-	AM/R/1003	
Terbutryn	<0.01	mg / kg	-	-	AM/R/1003	
Tetraconazole	<0.01	mg / kg	0.02	-	AM/R/1003	



Test	Result	Units	MRL	Rec. %	Method Number	Flag
<u>LCMS/MS Pesticide Screen</u>						
Tetramethrin	<0.01	mg / kg	-	-	AM/R/1003	
Thiacloprid	<0.01	mg / kg	10	-	AM/R/1003	
Thiamethoxam	<0.01	mg / kg	20	-	AM/R/1003	
Thiobencarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Thiophanate-Methyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Tolclofos-methyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Triazophos	<0.01	mg / kg	0.02	-	AM/R/1003	
Trichlorfon	<0.01	mg / kg	0.05	-	AM/R/1003	
Tridemorph	<0.01	mg / kg	0.05	-	AM/R/1003	
Trietazine	<0.01	mg / kg	-	-	AM/R/1003	
Trifloxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Triflumizole	<0.01	mg / kg	0.1	-	AM/R/1003	
Triflumuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Trimethacarb	<0.01	mg / kg	-	-	AM/R/1003	
Triticonazole	<0.01	mg / kg	0.02	-	AM/R/1003	
Uniconazole	<0.01	mg / kg	-	-	AM/R/1003	
Vamidothion	<0.01	mg / kg	-	-	AM/R/1003	
Vernolate	<0.01	mg / kg	-	-	AM/R/1003	
XMC (3,5-xylil methylcarbamate)	<0.01	mg / kg	-	-	AM/R/1003	
Zoxamide	<0.01	mg / kg	0.05	-	AM/R/1003	
<u>GC Pesticide Screen</u>						
Acephate	<0.01	mg / kg	0.05	-	AM/R/110	
Aldrin	<0.01	mg / kg	-	-	AM/R/110	
Atrazine	<0.05	mg / kg	0.1	-	AM/R/110	
Azinphos-ethyl	<0.01	mg / kg	0.05	-	AM/R/110	
Azinphos-methyl	<0.01	mg / kg	0.1	-	AM/R/110	
Azoxystrobin	<0.01	mg / kg	0.05	-	AM/R/110	
Benalaxyl	<0.05	mg / kg	0.1	-	AM/R/110	
Bifenthrin	<0.02	mg / kg	5	-	AM/R/110	
Bromophos	<0.01	mg / kg	-	-	AM/R/110	
Bromophos-ethyl	<0.05	mg / kg	0.1	-	AM/R/110	
Bupirimate	<0.02	mg / kg	0.05	-	AM/R/110	
Buprofezin	<0.05	mg / kg	0.05	-	AM/R/110	
Cadusaphos	<0.01	mg / kg	0.01	-	AM/R/110	
Carbofuran (parent compound only)	<0.01	mg / kg	0.05	-	AM/R/110	
Carbophenothion	<0.01	mg / kg	-	-	AM/R/110	
Carbosulfan	<0.01	mg / kg	0.05	-	AM/R/110	
Chlordane (sum of cis & trans isomers)	<0.01	mg / kg	0.02	-	AM/R/110	
Chlorfenvinphos	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorothalonil	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorpropham	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorpyrifos	<0.01	mg / kg	0.1	-	AM/R/110	
Chlorpyrifos-methyl	<0.01	mg / kg	0.1	-	AM/R/110	
Chlorthal-dimethyl	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorthion	<0.05	mg / kg	-	-	AM/R/110	
Cyanazine	<0.05	mg / kg	-	-	AM/R/110	
Cyfluthrin (sum of isomers)	<0.02	mg / kg	0.1	-	AM/R/110	
Cyhalothrin - lambda	<0.02	mg / kg	1	-	AM/R/110	
Cypermethrin (sum of isomers)	<0.05	mg / kg	0.5	-	AM/R/110	
Cyproconazole	<0.05	mg / kg	0.05	-	AM/R/110	
DDT (sum of pp'-DDE,pp'-DDD,op'-DDT & pp'-DDT expressed as DDT)	<0.02	mg / kg	0.2	-	AM/R/110	
Deltamethrin	<0.05	mg / kg	5	-	AM/R/110	
Desmetryn	<0.05	mg / kg	-	-	AM/R/110	
Diazinon	<0.01	mg / kg	0.05	-	AM/R/110	
Dichlofluanid	<0.05	mg / kg	-	-	AM/R/110	
Dichlorvos	<0.01	mg / kg	0.02	-	AM/R/110	
Dicofol	<0.02	mg / kg	20	-	AM/R/110	
Dieldrin	<0.01	mg / kg	-	-	AM/R/110	
Sum of Aldrin and Dieldrin (expressed as Dieldrin)	<0.01	mg / kg	0.02	-	AM/R/110	
Difenoconazole	<0.05	mg / kg	0.05	-	AM/R/110	
Sum of Dimethoate and Omethoate	<0.02	mg / kg	0.05	-	AM/R/110	
Diphenylamine	<0.05	mg / kg	0.05	-	AM/R/110	
Endosulfan (sum of alpha and beta isomers and endosulfan sulphate)	<0.02	mg / kg	30	-	AM/R/110	



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Test	Result	Units	MRL	Rec. %	Method Number	Flag
<u>GC Pesticide Screen</u>						
Endrin	<0.01	mg / kg	0.01	-	AM/R/110	
Ethion	<0.01	mg / kg	3	-	AM/R/110	
Ethoprophos	<0.01	mg / kg	0.02	-	AM/R/110	
Etridiazole	<0.05	mg / kg	0.05	-	AM/R/110	
Etrinfos	<0.01	mg / kg	-	-	AM/R/110	
Fenarimol	<0.02	mg / kg	0.05	-	AM/R/110	
Fenchlorphos (parent compound only)	<0.01	mg / kg	0.1	-	AM/R/110	
Fenitrothion	<0.01	mg / kg	0.05	-	AM/R/110	
Fenvalerate (sum of RR, SS, SR and RS isomers) including esfenvalerate	<0.02	mg / kg	0.1	-	AM/R/110	
Fluazifop-p-butyl	<0.05	mg / kg	0.05	-	AM/R/110	
Flucythrinate (sum of isomers)	<0.05	mg / kg	0.1	-	AM/R/110	
Fonofos	<0.01	mg / kg	-	-	AM/R/110	
Heptachlor (sum of heptachlor & heptachlor epoxide expressed as heptachlor)	<0.01	mg / kg	0.02	-	AM/R/110	
Heptenophos	<0.01	mg / kg	-	-	AM/R/110	
HCB	<0.01	mg / kg	0.02	-	AM/R/110	
Hexachlorocyclohexane - gamma	<0.01	mg / kg	0.05	-	AM/R/110	
Hexachlorocyclohexane - Sum of isomers other than gamma	<0.01	mg / kg	0.02	-	AM/R/110	
Hexaconazole	<0.01	mg / kg	0.05	-	AM/R/110	
Imazalil	<0.02	mg / kg	0.1	-	AM/R/110	
Iodofenphos	<0.05	mg / kg	-	-	AM/R/110	
Iprodione	<0.01	mg / kg	0.05	-	AM/R/110	
Kresoxim-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Malathion (parent compound only)	<0.02	mg / kg	0.5	-	AM/R/110	
Metalaxyl and metalaxyl-M (sum of isomers)	<0.02	mg / kg	0.1	-	AM/R/110	
Methacrifos	<0.01	mg / kg	0.1	-	AM/R/110	
Methamidophos	<0.01	mg / kg	0.05	-	AM/R/110	
Methidathion	<0.02	mg / kg	0.1	-	AM/R/110	
Methoxychlor	<0.01	mg / kg	0.1	-	AM/R/110	
Metribuzin	<0.05	mg / kg	0.1	-	AM/R/110	
Mevinphos	<0.01	mg / kg	0.02	-	AM/R/110	
Oxadixyl	<0.01	mg / kg	0.02	-	AM/R/110	
Parathion	<0.01	mg / kg	0.1	-	AM/R/110	
Parathion-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Penconazole	<0.05	mg / kg	0.1	-	AM/R/110	
Pendimethalin	<0.05	mg / kg	0.05	-	AM/R/110	
Permethrin (sum of isomers)	<0.05	mg / kg	0.1	-	AM/R/110	
Phosalone	<0.01	mg / kg	0.05	-	AM/R/110	
Phosmet	<0.05	mg / kg	0.1	-	AM/R/110	
Phosphamidon	<0.01	mg / kg	0.02	-	AM/R/110	
Pirimicarb	<0.01	mg / kg	0.05	-	AM/R/110	
Pirimiphos-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Procymidone	<0.01	mg / kg	0.05	-	AM/R/110	
Prometryn	<0.05	mg / kg	-	-	AM/R/110	
Propachlor	<0.02	mg / kg	0.1	-	AM/R/110	
Propham	<0.05	mg / kg	0.1	-	AM/R/110	
Propiconazole	<0.05	mg / kg	0.1	-	AM/R/110	
Propyzamide	<0.01	mg / kg	0.05	-	AM/R/110	
Quinalphos	<0.02	mg / kg	0.1	-	AM/R/110	
Quintozene (sum of quintozene & pentachloroaniline expressed as quintozene)	<0.01	mg / kg	0.1	-	AM/R/110	
Simazine	<0.01	mg / kg	0.05	-	AM/R/110	
Sulfotep	<0.01	mg / kg	-	-	AM/R/110	
Tebuconazole	<0.02	mg / kg	0.05	-	AM/R/110	
Tecnazene	<0.02	mg / kg	0.1	-	AM/R/110	
Tefluthrin	<0.01	mg / kg	0.05	-	AM/R/110	
Terbutylazine	<0.05	mg / kg	0.05	-	AM/R/110	
Terbutryn	<0.05	mg / kg	-	-	AM/R/110	
Tetradifon	<0.01	mg / kg	0.05	-	AM/R/110	
Tolclofos-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Tolyfluanid	<0.01	mg / kg	0.05	-	AM/R/110	
Sum of Triadimefon and Triadimenol	<0.02	mg / kg	0.2	-	AM/R/110	
Triazophos	<0.01	mg / kg	0.02	-	AM/R/110	
Trifluralin	<0.01	mg / kg	0.05	-	AM/R/110	



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Test	Result	Units	MRL	Rec. %	Method Number	Flag
GC Pesticide Screen						
Vinclozolin (parent compound only)	<0.05	mg / kg	0.1	-	AM/R/110	



Jonathan Bruss

Section Head

For and on Behalf of ALS Food and Pharmaceutical

Disclaimers:

MRL = UK Maximum Residue Level for Tea (dried leaves and stalks, fermented or otherwise of Camellia sinensis)

Rec. = Recovery efficiency of analytical method. The results on this certificate have not been corrected for recovery efficiency unless stated.

Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.

Unless otherwise stated, all results are expressed on an as received basis.

Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.



Certificate Number: TCHC398036-1 Final

Lab Ref.: CHC567364

Mr Thomas O'Sullivan
Advance Micro Services & Environmental
Laboratories Ltd
Carrigeen Industrial Estate
Clonmel, Tipperary
Ireland
Fax: 052 61 78133

Date Analysis Started: 19/01/2017

Country of Origin:
Date Reported: 27/01/2017

Commodity: Tea (dried leaves and stalks, fermented or otherwise of Camellia sinensis)

Sample Details: Desc: 2559278 Guayusa Leaf Tea Batch: IK003.

Order No: CGES-429120117

Date Received: 18/01/2017

Date Tested: 18/01/2017

Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Abamectin	<0.01	mg / kg	0.05	-	AM/R/1003	
Acetamiprid	<0.01	mg / kg	0.05	-	AM/R/1003	
Acrinathrin	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of aldicarb, aldicarb sulfoxide & sulfone (expressed as aldicarb)	<0.01	mg / kg	0.05	-	AM/R/1003	
Allethrin	<0.01	mg / kg	-	-	AM/R/1003	
Amicarbazone	<0.01	mg / kg	-	-	AM/R/1003	
Aminocarb	<0.01	mg / kg	-	-	AM/R/1003	
Atrazine	<0.01	mg / kg	0.1	-	AM/R/1003	
Azaconazole	<0.01	mg / kg	-	-	AM/R/1003	
Azamethiphos	<0.01	mg / kg	-	-	AM/R/1003	
Beflubetamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Bendiocarb	<0.01	mg / kg	-	-	AM/R/1003	
Benzoximate	<0.01	mg / kg	-	-	AM/R/1003	
Bifenazate	<0.01	mg / kg	0.05	-	AM/R/1003	
Bifenox	<0.01	mg / kg	0.05	-	AM/R/1003	
Bixafen	<0.01	mg / kg	0.01	-	AM/R/1003	
Boscalid	<0.01	mg / kg	0.01	-	AM/R/1003	
Bromacil	<0.01	mg / kg	-	-	AM/R/1003	
Buprofezin	<0.01	mg / kg	0.05	-	AM/R/1003	
Butocarboxim	<0.01	mg / kg	-	-	AM/R/1003	
Butralin	<0.01	mg / kg	0.05	-	AM/R/1003	
Carbaryl	<0.01	mg / kg	0.05	-	AM/R/1003	
Carbetamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of carbofuran & 3-OH carbofuran (expressed as carbofuran)	<0.001	mg / kg	0.05	-	AM/R/1003	
Carbosulfan	<0.01	mg / kg	0.05	-	AM/R/1003	
Carboxin	<0.01	mg / kg	0.05	-	AM/R/1003	
Carfentrazone-ethyl	<0.01	mg / kg	0.02	-	AM/R/1003	
Chlorantraniliprole	<0.01	mg / kg	0.02	-	AM/R/1003	
Chloridazon	<0.01	mg / kg	0.1	-	AM/R/1003	
Chlortoluron	<0.01	mg / kg	0.05	-	AM/R/1003	
Chlorthiophos	<0.01	mg / kg	-	-	AM/R/1003	
Cinidon-ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Clofentezine	<0.01	mg / kg	0.05	-	AM/R/1003	
Clomazone	<0.01	mg / kg	0.05	-	AM/R/1003	
Clothianidin	<0.01	mg / kg	0.7	-	AM/R/1003	
Coumaphos	<0.01	mg / kg	-	-	AM/R/1003	
Crufomate	<0.01	mg / kg	-	-	AM/R/1003	
Cyanazine	<0.01	mg / kg	-	-	AM/R/1003	
Cyazofamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Cycloate	<0.01	mg / kg	-	-	AM/R/1003	
Cycluron	<0.01	mg / kg	-	-	AM/R/1003	
Cyflufenamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Cymiazole	<0.01	mg / kg	-	-	AM/R/1003	
Cymoxanil	<0.01	mg / kg	0.05	-	AM/R/1003	
DEET (N,N-dimethyl-m-toluamide)	<0.01	mg / kg	-	-	AM/R/1003	



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Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Demeton-S-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Oxydemeton-methyl (sum of oxydemeton-me and dem-S-me sulfone as oxydemeton-me)	<0.01	mg / kg	0.05	-	AM/R/1003	
Desmedipham	<0.01	mg / kg	0.05	-	AM/R/1003	
Desmetryn	<0.01	mg / kg	-	-	AM/R/1003	
Dialifos	<0.01	mg / kg	-	-	AM/R/1003	
Diclofop-methyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Diclotophos	<0.01	mg / kg	-	-	AM/R/1003	
Diethofencarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Diflubenzuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Diflufenican	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethachlor	<0.01	mg / kg	0.02	-	AM/R/1003	
Dimethenamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of Dimethoate and Omethoate	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethomorph	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethylvinphos	<0.01	mg / kg	-	-	AM/R/1003	
Dimoxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Diniconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Dinotefuran	<0.01	mg / kg	-	-	AM/R/1003	
Dioxacarb	<0.01	mg / kg	-	-	AM/R/1003	
Diphenamid	<0.01	mg / kg	-	-	AM/R/1003	
Disulfoton (sum of disulfoton, sulfoxide and sulfone expressed as disulfoton)	<0.01	mg / kg	-	-	AM/R/1003	
Diuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Emamectin	<0.01	mg / kg	0.02	-	AM/R/1003	
Epoxiconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Ethidimuron (sulfodiazole)	<0.01	mg / kg	-	-	AM/R/1003	
Ethion	<0.01	mg / kg	3	-	AM/R/1003	
Ethofumesate	<0.01	mg / kg	0.1	-	AM/R/1003	
Ethoprophos	<0.01	mg / kg	0.02	-	AM/R/1003	
Etofenprox	<0.01	mg / kg	0.01	-	AM/R/1003	
Famoxadone	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenamidone	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of fenamiphos, fenamiphos sulfone and fenamiphos sulfoxide	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenarimol	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenazaquin	<0.01	mg / kg	10	-	AM/R/1003	
Fenbuconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenchlorphos oxon	<0.01	mg / kg	-	-	AM/R/1003	
Fenhexamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenobucarb	<0.01	mg / kg	-	-	AM/R/1003	
Fenoxaprop-P-ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Fenoxycarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenpropathrin	<0.01	mg / kg	2	-	AM/R/1003	
Fenpropidin	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenpyroximate	<0.01	mg / kg	0.1	-	AM/R/1003	
Sum of fenthion, fenthion sulfone and fenthion sulfoxide	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenuron	<0.01	mg / kg	-	-	AM/R/1003	
Fipronil	<0.005	mg / kg	0.005	-	AM/R/1003	
Flamprop isopropyl	<0.01	mg / kg	-	-	AM/R/1003	
Flonicamid (Parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Flubendiamide	<0.01	mg / kg	0.02	-	AM/R/1003	
Flucythrinate (sum of isomers)	<0.01	mg / kg	0.1	-	AM/R/1003	
Fludioxonil	<0.01	mg / kg	0.05	-	AM/R/1003	
Flufenacet	<0.01	mg / kg	0.05	-	AM/R/1003	
Flufenoxuron	<0.01	mg / kg	15	-	AM/R/1003	
Flumorph	<0.01	mg / kg	-	-	AM/R/1003	
Fluometuron	<0.01	mg / kg	0.02	-	AM/R/1003	
Fluopicolide	<0.01	mg / kg	0.02	-	AM/R/1003	
Fluoxastrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Fluquinconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Flurochloridone	<0.01	mg / kg	-	-	AM/R/1003	
Flurtamone	<0.01	mg / kg	0.05	-	AM/R/1003	
Flusilazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Flutolanil	<0.01	mg / kg	0.05	-	AM/R/1003	
Flutriafol	<0.01	mg / kg	0.05	-	AM/R/1003	



Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Formetanate hydrochloride	<0.01	mg / kg	0.05	-	AM/R/1003	
Formothion	<0.01	mg / kg	0.05	-	AM/R/1003	
Fosthiazate	<0.01	mg / kg	0.05	-	AM/R/1003	
Furalaxyl	<0.01	mg / kg	-	-	AM/R/1003	
Furathiocarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Guthion	<0.01	mg / kg	-	-	AM/R/1003	
Halofenozide	<0.01	mg / kg	-	-	AM/R/1003	
Haloxypop-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Hexaflumuron	<0.01	mg / kg	-	-	AM/R/1003	
Hexazinone	<0.01	mg / kg	-	-	AM/R/1003	
Hexythiazox	<0.01	mg / kg	4	-	AM/R/1003	
Imidacloprid	<0.01	mg / kg	0.05	-	AM/R/1003	
Indoxacarb	<0.01	mg / kg	5	-	AM/R/1003	
Ipcnazole	<0.01	mg / kg	0.02	-	AM/R/1003	
Iprobenfos	<0.01	mg / kg	-	-	AM/R/1003	
Iprovalcarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Isocarboxiphos	<0.01	mg / kg	-	-	AM/R/1003	
Isofenphos-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Isoprothiolane	<0.01	mg / kg	0.01	-	AM/R/1003	
Isoproturon	<0.01	mg / kg	0.05	-	AM/R/1003	
Isopyrazam	<0.01	mg / kg	0.01	-	AM/R/1003	
Isoxaben	<0.01	mg / kg	0.02	-	AM/R/1003	
Isoxaflutole (parent)	<0.01	mg / kg	0.1	-	AM/R/1003	
Ivermectin	<0.01	mg / kg	-	-	AM/R/1003	
Lenacil	<0.01	mg / kg	0.1	-	AM/R/1003	
Linuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Lufenuron	<0.01	mg / kg	0.02	-	AM/R/1003	
Sum of malathion and malaaxon (expressed as malathion)	<0.01	mg / kg	0.5	-	AM/R/1003	
Mandipropamid	<0.01	mg / kg	0.02	-	AM/R/1003	
Mecarbam	<0.01	mg / kg	0.1	-	AM/R/1003	
Mephosfolan	<0.01	mg / kg	-	-	AM/R/1003	
Mepronil	<0.01	mg / kg	0.05	-	AM/R/1003	
Metaflumizone	<0.01	mg / kg	0.1	-	AM/R/1003	
Metamitron	<0.01	mg / kg	0.1	-	AM/R/1003	
Metazachlor (Parent Only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Metconazole	<0.01	mg / kg	0.1	-	AM/R/1003	
Methabenzthiazuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Methacrifos	<0.01	mg / kg	0.1	-	AM/R/1003	
Methiocarb (sum of methiocarb, sulfoxide and sulfone as methiocarb)	<0.01	mg / kg	0.1	-	AM/R/1003	
Sum of methomyl and thiodicarb	<0.01	mg / kg	0.1	-	AM/R/1003	
Methoprotryne	<0.01	mg / kg	-	-	AM/R/1003	
Methoxyfenozide	<0.01	mg / kg	0.05	-	AM/R/1003	
Metobromuron	<0.01	mg / kg	-	-	AM/R/1003	
Metolachlor	<0.01	mg / kg	0.05	-	AM/R/1003	
Metolcarb	<0.01	mg / kg	-	-	AM/R/1003	
Metoxuron	<0.01	mg / kg	-	-	AM/R/1003	
Metrafenone	<0.01	mg / kg	0.05	-	AM/R/1003	
Mevinphos	<0.01	mg / kg	0.02	-	AM/R/1003	
Mexacarbate	<0.01	mg / kg	-	-	AM/R/1003	
Molinat	<0.01	mg / kg	0.05	-	AM/R/1003	
Monolinuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Monuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Moxidectin	<0.01	mg / kg	-	-	AM/R/1003	
Napropamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Nitenpyram	<0.01	mg / kg	-	-	AM/R/1003	
Norflurazon	<0.01	mg / kg	-	-	AM/R/1003	
Novaluron	<0.01	mg / kg	0.01	-	AM/R/1003	
Oxadiazon	<0.01	mg / kg	0.05	-	AM/R/1003	
Oxamyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Pacllobutrazol	<0.01	mg / kg	0.02	-	AM/R/1003	
Paraoxon	<0.01	mg / kg	-	-	AM/R/1003	
Paraoxon methyl	<0.01	mg / kg	-	-	AM/R/1003	
Pencycuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Penthiopyrad	<0.01	mg / kg	0.02	-	AM/R/1003	
Pethoxamid	<0.01	mg / kg	0.05	-	AM/R/1003	



Certificate Number: TCHC398036-1 Final

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Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Phenmedipham	<0.01	mg / kg	0.05	-	AM/R/1003	
Phenothrin	<0.01	mg / kg	0.05	-	AM/R/1003	
Phenthoate	<0.01	mg / kg	-	-	AM/R/1003	
Phorate (sum of phorate, sulfoxide and sulfone expressed as phorate)	<0.01	mg / kg	0.05	-	AM/R/1003	
Phosalone	<0.01	mg / kg	0.05	-	AM/R/1003	
Phosfolan	<0.01	mg / kg	-	-	AM/R/1003	
Phosmet	<0.01	mg / kg	0.1	-	AM/R/1003	
Phoxim	<0.01	mg / kg	0.1	-	AM/R/1003	
Picolinafen	<0.01	mg / kg	0.05	-	AM/R/1003	
Picoxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Pinoxaden	<0.01	mg / kg	0.05	-	AM/R/1003	
Piperonyl Butoxide	<0.01	mg / kg	-	-	AM/R/1003	
Pirimicarb	<0.01	mg / kg	0.05	-	AM/R/1003	
desmethyl Pirimicarb	<0.01	mg / kg	-	-	AM/R/1003	
Sum of pirimicarb and desmethyl pirimicarb (expressed as pirimicarb)	<0.01	mg / kg	0.05	-	AM/R/1003	
Prochloraz (parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Profenofos	<0.01	mg / kg	0.05	-	AM/R/1003	
Promecarb	<0.01	mg / kg	-	-	AM/R/1003	
Prometon	<0.01	mg / kg	-	-	AM/R/1003	
Prometryn	<0.01	mg / kg	-	-	AM/R/1003	
Propamocarb Hydrochloride	<0.01	mg / kg	0.05	-	AM/R/1003	
Propanil	<0.01	mg / kg	0.05	-	AM/R/1003	
Propaquizafop	<0.01	mg / kg	0.05	-	AM/R/1003	
Propargite	<0.01	mg / kg	0.05	-	AM/R/1003	
Propazine	<0.01	mg / kg	-	-	AM/R/1003	
Propetamphos	<0.01	mg / kg	-	-	AM/R/1003	
Propham	<0.01	mg / kg	0.1	-	AM/R/1003	
Propiconazole	<0.01	mg / kg	0.1	-	AM/R/1003	
Propoxur	<0.01	mg / kg	0.1	-	AM/R/1003	
Propyzamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Proquinazid	<0.01	mg / kg	0.05	-	AM/R/1003	
Prosulfocarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Prothioconazole-desthio	<0.01	mg / kg	0.05	-	AM/R/1003	
Pyracarbolid	<0.01	mg / kg	-	-	AM/R/1003	
Pyraclostrobin	<0.01	mg / kg	0.1	-	AM/R/1003	
Pyralufen ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Pyridaben	<0.01	mg / kg	0.05	-	AM/R/1003	
Pyrifenox	<0.01	mg / kg	-	-	AM/R/1003	
Pyriproxifen	<0.01	mg / kg	15	-	AM/R/1003	
Quassin (quassia)	<0.01	mg / kg	-	-	AM/R/1003	
Quinalphos	<0.01	mg / kg	0.1	-	AM/R/1003	
Quinoxifen	<0.01	mg / kg	0.05	-	AM/R/1003	
Quizalofop ethyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Resmethrin	<0.01	mg / kg	0.2	-	AM/R/1003	
Rotenone	<0.01	mg / kg	0.02	-	AM/R/1003	
Silthiofam	<0.01	mg / kg	0.05	-	AM/R/1003	
Simazine	<0.01	mg / kg	0.05	-	AM/R/1003	
Spinetoram	<0.01	mg / kg	0.1	-	AM/R/1003	
Spinosad	<0.01	mg / kg	0.1	-	AM/R/1003	
Spirodiclofen	<0.01	mg / kg	0.05	-	AM/R/1003	
Spiromesifen	<0.01	mg / kg	50	-	AM/R/1003	
Spirotetramat (parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Spiroxamine	<0.01	mg / kg	0.1	-	AM/R/1003	
tau-Fluvalinate	<0.01	mg / kg	0.01	-	AM/R/1003	
Tebufenozide	<0.01	mg / kg	0.1	-	AM/R/1003	
Tebufenpyrad	<0.01	mg / kg	0.1	-	AM/R/1003	
Tebupirimfos	<0.01	mg / kg	-	-	AM/R/1003	
Tebuthiuron	<0.01	mg / kg	-	-	AM/R/1003	
Temephos	<0.01	mg / kg	-	-	AM/R/1003	
Terbufos	<0.01	mg / kg	0.01	-	AM/R/1003	
Terbufos sulfone	<0.01	mg / kg	-	-	AM/R/1003	
Terbufos sulfoxide	<0.01	mg / kg	-	-	AM/R/1003	
Terbutylazine	<0.01	mg / kg	0.05	-	AM/R/1003	
Terbutryn	<0.01	mg / kg	-	-	AM/R/1003	
Tetraconazole	<0.01	mg / kg	0.02	-	AM/R/1003	



Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Tetramethrin	<0.01	mg / kg	-	-	AM/R/1003	
Thiacloprid	<0.01	mg / kg	10	-	AM/R/1003	
Thiamethoxam	<0.01	mg / kg	20	-	AM/R/1003	
Thiobencarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Thiophanate-Methyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Tolclofos-methyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Triazophos	<0.01	mg / kg	0.02	-	AM/R/1003	
Trichlorfon	<0.01	mg / kg	0.05	-	AM/R/1003	
Tridemorph	<0.01	mg / kg	0.05	-	AM/R/1003	
Trietazine	<0.01	mg / kg	-	-	AM/R/1003	
Trifloxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Triflumizole	<0.01	mg / kg	0.1	-	AM/R/1003	
Triflumuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Trimethacarb	<0.01	mg / kg	-	-	AM/R/1003	
Triticonazole	<0.01	mg / kg	0.02	-	AM/R/1003	
Uniconazole	<0.01	mg / kg	-	-	AM/R/1003	
Vamidothion	<0.01	mg / kg	-	-	AM/R/1003	
Vernolate	<0.01	mg / kg	-	-	AM/R/1003	
XMC (3,5-xyllyl methylcarbamate)	<0.01	mg / kg	-	-	AM/R/1003	
Zoxamide	<0.01	mg / kg	0.05	-	AM/R/1003	
GC Pesticide Screen						
Acephate	<0.01	mg / kg	0.05	-	AM/R/110	
Aldrin	<0.01	mg / kg	-	-	AM/R/110	
Atrazine	<0.05	mg / kg	0.1	-	AM/R/110	
Azinphos-ethyl	<0.01	mg / kg	0.05	-	AM/R/110	
Azinphos-methyl	<0.01	mg / kg	0.1	-	AM/R/110	
Azoxystrobin	<0.01	mg / kg	0.05	-	AM/R/110	
Benalaxyl	<0.05	mg / kg	0.1	-	AM/R/110	
Bifenthrin	<0.02	mg / kg	5	-	AM/R/110	
Bromophos	<0.01	mg / kg	-	-	AM/R/110	
Bromophos-ethyl	<0.05	mg / kg	0.1	-	AM/R/110	
Bupirimate	<0.02	mg / kg	0.05	-	AM/R/110	
Buprofezin	<0.05	mg / kg	0.05	-	AM/R/110	
Cadusaphos	<0.01	mg / kg	0.01	-	AM/R/110	
Carbofuran (parent compound only)	<0.01	mg / kg	0.05	-	AM/R/110	
Carbophenothion	<0.01	mg / kg	-	-	AM/R/110	
Carbosulfan	<0.01	mg / kg	0.05	-	AM/R/110	
Chlordane (sum of cis & trans isomers)	<0.01	mg / kg	0.02	-	AM/R/110	
Chlorfenvinphos	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorothalonil	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorpropham	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorpyrifos	<0.01	mg / kg	0.1	-	AM/R/110	
Chlorpyrifos-methyl	<0.01	mg / kg	0.1	-	AM/R/110	
Chlorthal-dimethyl	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorthion	<0.05	mg / kg	-	-	AM/R/110	
Cyanazine	<0.05	mg / kg	-	-	AM/R/110	
Cyfluthrin (sum of isomers)	<0.02	mg / kg	0.1	-	AM/R/110	
Cyhalothrin - lambda	<0.02	mg / kg	1	-	AM/R/110	
Cypermethrin (sum of isomers)	<0.05	mg / kg	0.5	-	AM/R/110	
Cyproconazole	<0.05	mg / kg	0.05	-	AM/R/110	
DDT (sum of pp'-DDE, pp'-DDD, op'-DDT & pp'-DDT expressed as DDT)	<0.02	mg / kg	0.2	-	AM/R/110	
Deltamethrin	<0.05	mg / kg	5	-	AM/R/110	
Desmetyrn	<0.05	mg / kg	-	-	AM/R/110	
Diazinon	<0.01	mg / kg	0.05	-	AM/R/110	
Dichlofluanid	<0.05	mg / kg	-	-	AM/R/110	
Dichlorvos	<0.01	mg / kg	0.02	-	AM/R/110	
Dicofol	<0.02	mg / kg	20	-	AM/R/110	
Dieldrin	<0.01	mg / kg	-	-	AM/R/110	
Sum of Aldrin and Dieldrin (expressed as Dieldrin)	<0.01	mg / kg	0.02	-	AM/R/110	
Difenoconazole	<0.05	mg / kg	0.05	-	AM/R/110	
Sum of Dimethoate and Omethoate	<0.02	mg / kg	0.05	-	AM/R/110	
Diphenylamine	<0.05	mg / kg	0.05	-	AM/R/110	
Endosulfan (sum of alpha and beta isomers and endosulfan sulphate)	<0.02	mg / kg	30	-	AM/R/110	



Test	Result	Units	MRL	Rec. %	Method Number	Flag
GC Pesticide Screen						
Endrin	<0.01	mg / kg	0.01	-	AM/R/110	
Ethion	<0.01	mg / kg	3	-	AM/R/110	
Ethoprophos	<0.01	mg / kg	0.02	-	AM/R/110	
Etridiazole	<0.05	mg / kg	0.05	-	AM/R/110	
Etrimfos	<0.01	mg / kg	-	-	AM/R/110	
Fenarimol	<0.02	mg / kg	0.05	-	AM/R/110	
Fenchlorphos (parent compound only)	<0.01	mg / kg	0.1	-	AM/R/110	
Fenitrothion	<0.01	mg / kg	0.05	-	AM/R/110	
Fenvalerate (sum of RR, SS, SR and RS isomers) including esfenvalerate	<0.02	mg / kg	0.1	-	AM/R/110	
Fluazifop-p-butyl	<0.05	mg / kg	0.05	-	AM/R/110	
Flucythrinate (sum of isomers)	<0.05	mg / kg	0.1	-	AM/R/110	
Fonofos	<0.01	mg / kg	-	-	AM/R/110	
Heptachlor (sum of heptachlor & heptachlor epoxide expressed as heptachlor)	<0.01	mg / kg	0.02	-	AM/R/110	
Heptenophos	<0.01	mg / kg	-	-	AM/R/110	
HCB	<0.01	mg / kg	0.02	-	AM/R/110	
Hexachlorocyclohexane - gamma	<0.01	mg / kg	0.05	-	AM/R/110	
Hexachlorocyclohexane - Sum of isomers other than gamma	<0.01	mg / kg	0.02	-	AM/R/110	
Hexaconazole	<0.01	mg / kg	0.05	-	AM/R/110	
Imazalil	<0.02	mg / kg	0.1	-	AM/R/110	
Iodofenphos	<0.05	mg / kg	-	-	AM/R/110	
Iprodione	<0.01	mg / kg	0.05	-	AM/R/110	
Kresoxim-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Malathion (parent compound only)	<0.02	mg / kg	0.5	-	AM/R/110	
Metalaxyl and metalaxyl-M (sum of isomers)	<0.02	mg / kg	0.1	-	AM/R/110	
Methacrifos	<0.01	mg / kg	0.1	-	AM/R/110	
Methamidophos	<0.01	mg / kg	0.05	-	AM/R/110	
Methidathion	<0.02	mg / kg	0.1	-	AM/R/110	
Methoxychlor	<0.01	mg / kg	0.1	-	AM/R/110	
Metribuzin	<0.05	mg / kg	0.1	-	AM/R/110	
Mevinphos	<0.01	mg / kg	0.02	-	AM/R/110	
Oxadixyl	<0.01	mg / kg	0.02	-	AM/R/110	
Parathion	<0.01	mg / kg	0.1	-	AM/R/110	
Parathion-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Penconazole	<0.05	mg / kg	0.1	-	AM/R/110	
Pendimethalin	<0.05	mg / kg	0.05	-	AM/R/110	
Permethrin (sum of isomers)	<0.05	mg / kg	0.1	-	AM/R/110	
Phosalone	<0.01	mg / kg	0.05	-	AM/R/110	
Phosmet	<0.05	mg / kg	0.1	-	AM/R/110	
Phosphamidon	<0.01	mg / kg	0.02	-	AM/R/110	
Pirimicarb	<0.01	mg / kg	0.05	-	AM/R/110	
Pirimiphos-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Procymidone	<0.01	mg / kg	0.05	-	AM/R/110	
Prometryn	<0.05	mg / kg	-	-	AM/R/110	
Propachlor	<0.02	mg / kg	0.1	-	AM/R/110	
Propham	<0.05	mg / kg	0.1	-	AM/R/110	
Propiconazole	<0.05	mg / kg	0.1	-	AM/R/110	
Propyzamide	<0.01	mg / kg	0.05	-	AM/R/110	
Quinalphos	<0.02	mg / kg	0.1	-	AM/R/110	
Quintozene (sum of quintozene & pentachloroaniline expressed as quintozene)	<0.01	mg / kg	0.1	-	AM/R/110	
Simazine	<0.01	mg / kg	0.05	-	AM/R/110	
Sulfotep	<0.01	mg / kg	-	-	AM/R/110	
Tebuconazole	<0.02	mg / kg	0.05	-	AM/R/110	
Tecnazene	<0.02	mg / kg	0.1	-	AM/R/110	
Tefluthrin	<0.01	mg / kg	0.05	-	AM/R/110	
Terbutylazine	<0.05	mg / kg	0.05	-	AM/R/110	
Terbutryn	<0.05	mg / kg	-	-	AM/R/110	
Tetradifon	<0.01	mg / kg	0.05	-	AM/R/110	
Tolclofos-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Tolyfluanid	<0.01	mg / kg	0.05	-	AM/R/110	
Sum of Triadimefon and Triadimenol	<0.02	mg / kg	0.2	-	AM/R/110	
Triazophos	<0.01	mg / kg	0.02	-	AM/R/110	
Trifluralin	<0.01	mg / kg	0.05	-	AM/R/110	





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Sample Ref.: CHC567364

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Test	Result	Units	MRL	Rec. %	Method Number	Flag
<u>GC Pesticide Screen</u> Vinclozolin (parent compound only)	<0.05	mg / kg	0.1	-	AM/R/110	

Jonathan Bruss

Section Head

For and on Behalf of ALS Food and Pharmaceutical

Disclaimers:

MRL = UK Maximum Residue Level for Tea (dried leaves and stalks, fermented or otherwise of Camellia sinensis)

Rec. = Recovery efficiency of analytical method. The results on this certificate have not been corrected for recovery efficiency unless stated.

Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.

Unless otherwise stated, all results are expressed on an as received basis.

Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.

Certificate Number: TCHC398037-1 Final

Lab Ref.:

CHC567365

Mr Thomas O'Sullivan
Advance Micro Services & Environmental
Laboratories Ltd
Carrigeen Industrial Estate
Clonmel, Tipperary
Ireland
Fax: 052 61 78133

Date Analysis Started: 19/01/2017

Country of Origin:
Date Reported: 27/01/2017

Commodity: Tea (dried leaves and stalks, fermented or otherwise of Camellia sinensis)

Sample Details: Desc: 2559279 Guayusa Leaf Tea Batch: IK004.

Order No: CGES-429120117

Date Received: 18/01/2017

Date Tested: 18/01/2017

Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Abamectin	<0.01	mg / kg	0.05	-	AM/R/1003	
Acetamiprid	<0.01	mg / kg	0.05	-	AM/R/1003	
Acrinathrin	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of aldicarb, aldicarb sulfoxide & sulfone (expressed as aldicarb)	<0.01	mg / kg	0.05	-	AM/R/1003	
Allethrin	<0.01	mg / kg	-	-	AM/R/1003	
Amicarbazone	<0.01	mg / kg	-	-	AM/R/1003	
Aminocarb	<0.01	mg / kg	-	-	AM/R/1003	
Atrazine	<0.01	mg / kg	0.1	-	AM/R/1003	
Azaconazole	<0.01	mg / kg	-	-	AM/R/1003	
Azamectin	<0.01	mg / kg	-	-	AM/R/1003	
Beflubetamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Bendiocarb	<0.01	mg / kg	-	-	AM/R/1003	
Benzoximate	<0.01	mg / kg	-	-	AM/R/1003	
Bifenazate	<0.01	mg / kg	0.05	-	AM/R/1003	
Bifenox	<0.01	mg / kg	0.05	-	AM/R/1003	
Bixafen	<0.01	mg / kg	0.01	-	AM/R/1003	
Boscalid	<0.01	mg / kg	0.01	-	AM/R/1003	
Bromacil	<0.01	mg / kg	-	-	AM/R/1003	
Buprofezin	<0.01	mg / kg	0.05	-	AM/R/1003	
Butocarboxim	<0.01	mg / kg	-	-	AM/R/1003	
Butralin	<0.01	mg / kg	0.05	-	AM/R/1003	
Carbaryl	<0.01	mg / kg	0.05	-	AM/R/1003	
Carbetamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of carbofuran & 3-OH carbofuran (expressed as carbofuran)	<0.001	mg / kg	0.05	-	AM/R/1003	
Carbosulfan	<0.01	mg / kg	0.05	-	AM/R/1003	
Carboxin	<0.01	mg / kg	0.05	-	AM/R/1003	
Carfentrazone-ethyl	<0.01	mg / kg	0.02	-	AM/R/1003	
Chlorantraniliprole	<0.01	mg / kg	0.02	-	AM/R/1003	
Chloridazon	<0.01	mg / kg	0.1	-	AM/R/1003	
Chlortoluron	<0.01	mg / kg	0.05	-	AM/R/1003	
Chlorthiophos	<0.01	mg / kg	-	-	AM/R/1003	
Cinidon-ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Clofentezine	<0.01	mg / kg	0.05	-	AM/R/1003	
Clomazone	<0.01	mg / kg	0.05	-	AM/R/1003	
Clothianidin	<0.01	mg / kg	0.7	-	AM/R/1003	
Coumaphos	<0.01	mg / kg	-	-	AM/R/1003	
Cruformate	<0.01	mg / kg	-	-	AM/R/1003	
Cyanazine	<0.01	mg / kg	-	-	AM/R/1003	
Cyazofamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Cycloate	<0.01	mg / kg	-	-	AM/R/1003	
Cycluron	<0.01	mg / kg	-	-	AM/R/1003	
Cyflufenamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Cymiazole	<0.01	mg / kg	-	-	AM/R/1003	
Cymoxanil	<0.01	mg / kg	0.05	-	AM/R/1003	
DEET (N,N-dimethyl-m-toluamide)	<0.01	mg / kg	-	-	AM/R/1003	

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Test	Result	Units	MRL	Rec. %	Method Number	Flag
<u>LCMS/MS Pesticide Screen</u>						
Demeton-S-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Oxydemeton-methyl (sum of oxydemeton-me and dem-S-me sulfone as oxydemeton-me)	<0.01	mg / kg	0.05	-	AM/R/1003	
Desmedipham	<0.01	mg / kg	0.05	-	AM/R/1003	
Desmetryn	<0.01	mg / kg	-	-	AM/R/1003	
Dialifos	<0.01	mg / kg	-	-	AM/R/1003	
Diclofop-methyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Dicrotophos	<0.01	mg / kg	-	-	AM/R/1003	
Diethofencarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Diflubenzuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Diflufenican	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethachlor	<0.01	mg / kg	0.02	-	AM/R/1003	
Dimethenamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of Dimethoate and Omethoate	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethomorph	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethylvinphos	<0.01	mg / kg	-	-	AM/R/1003	
Dimoxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Diniconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Dinotefuran	<0.01	mg / kg	-	-	AM/R/1003	
Dioxacarb	<0.01	mg / kg	-	-	AM/R/1003	
Diphenamid	<0.01	mg / kg	-	-	AM/R/1003	
Disulfoton (sum of disulfoton, sulfoxide and sulfone expressed as disulfoton)	<0.01	mg / kg	-	-	AM/R/1003	
Diuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Emamectin	<0.01	mg / kg	0.02	-	AM/R/1003	
Epoxiconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Ethidimuron (sulfodiazole)	<0.01	mg / kg	-	-	AM/R/1003	
Ethion	<0.01	mg / kg	3	-	AM/R/1003	
Ethofumesate	<0.01	mg / kg	0.1	-	AM/R/1003	
Ethoprophos	<0.01	mg / kg	0.02	-	AM/R/1003	
Etofenprox	<0.01	mg / kg	0.01	-	AM/R/1003	
Famoxadone	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenamidone	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of fenamiphos, fenamiphos sulfone and fenamiphos sulfoxide	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenarimol	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenazaquin	<0.01	mg / kg	10	-	AM/R/1003	
Fenbuconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenchlorphos oxon	<0.01	mg / kg	-	-	AM/R/1003	
Fenhexamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenobucarb	<0.01	mg / kg	-	-	AM/R/1003	
Fenoxaprop-P-ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Fenoxycarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenpropathrin	<0.01	mg / kg	2	-	AM/R/1003	
Fenpropidin	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenpyroximate	<0.01	mg / kg	0.1	-	AM/R/1003	
Sum of fenthion, fenthion sulfone and fenthion sulfoxide	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenuron	<0.01	mg / kg	-	-	AM/R/1003	
Fipronil	<0.005	mg / kg	0.005	-	AM/R/1003	
Flamprop isopropyl	<0.01	mg / kg	-	-	AM/R/1003	
Flonicamid (Parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Flubendiamide	<0.01	mg / kg	0.02	-	AM/R/1003	
Flucythrinate (sum of isomers)	<0.01	mg / kg	0.1	-	AM/R/1003	
Fludioxonil	<0.01	mg / kg	0.05	-	AM/R/1003	
Flufenacet	<0.01	mg / kg	0.05	-	AM/R/1003	
Flufenoxuron	<0.01	mg / kg	15	-	AM/R/1003	
Flumorph	<0.01	mg / kg	-	-	AM/R/1003	
Fluometuron	<0.01	mg / kg	0.02	-	AM/R/1003	
Fluopicolide	<0.01	mg / kg	0.02	-	AM/R/1003	
Fluoxastrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Fluquinconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Flurochloridone	<0.01	mg / kg	-	-	AM/R/1003	
Flurtamone	<0.01	mg / kg	0.05	-	AM/R/1003	
Flusilazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Flutolanil	<0.01	mg / kg	0.05	-	AM/R/1003	
Flutriafol	<0.01	mg / kg	0.05	-	AM/R/1003	



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Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Formetanate hydrochloride	<0.01	mg / kg	0.05	-	AM/R/1003	
Formothion	<0.01	mg / kg	0.05	-	AM/R/1003	
Fosthiazate	<0.01	mg / kg	0.05	-	AM/R/1003	
Furalaxyl	<0.01	mg / kg	-	-	AM/R/1003	
Furathiocarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Guthion	<0.01	mg / kg	-	-	AM/R/1003	
Halofenozide	<0.01	mg / kg	-	-	AM/R/1003	
Haloxypop-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Hexaflumuron	<0.01	mg / kg	-	-	AM/R/1003	
Hexazinone	<0.01	mg / kg	-	-	AM/R/1003	
Hexythiazox	<0.01	mg / kg	4	-	AM/R/1003	
Imidacloprid	<0.01	mg / kg	0.05	-	AM/R/1003	
Indoxacarb	<0.01	mg / kg	5	-	AM/R/1003	
Ipcnazole	<0.01	mg / kg	0.02	-	AM/R/1003	
Iprobenfos	<0.01	mg / kg	-	-	AM/R/1003	
Iprovalicarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Isocarboxiphos	<0.01	mg / kg	-	-	AM/R/1003	
Isofenphos-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Isoprothiolane	<0.01	mg / kg	0.01	-	AM/R/1003	
Isoproturon	<0.01	mg / kg	0.05	-	AM/R/1003	
Isopyrazam	<0.01	mg / kg	0.01	-	AM/R/1003	
Isoxaben	<0.01	mg / kg	0.02	-	AM/R/1003	
Isoxaflutole (parent)	<0.01	mg / kg	0.1	-	AM/R/1003	
Ivermectin	<0.01	mg / kg	-	-	AM/R/1003	
Lenacil	<0.01	mg / kg	0.1	-	AM/R/1003	
Linuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Lufenuron	<0.01	mg / kg	0.02	-	AM/R/1003	
Sum of malathion and malaonox (expressed as malathion)	<0.01	mg / kg	0.5	-	AM/R/1003	
Mandipropamid	<0.01	mg / kg	0.02	-	AM/R/1003	
Mecarbam	<0.01	mg / kg	0.1	-	AM/R/1003	
Mephosfolan	<0.01	mg / kg	-	-	AM/R/1003	
Mepronil	<0.01	mg / kg	0.05	-	AM/R/1003	
Metaflumizone	<0.01	mg / kg	0.1	-	AM/R/1003	
Metamitron	<0.01	mg / kg	0.1	-	AM/R/1003	
Metazachlor (Parent Only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Metconazole	<0.01	mg / kg	0.1	-	AM/R/1003	
Methabenzthiazuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Methacrifos	<0.01	mg / kg	0.1	-	AM/R/1003	
Methiocarb (sum of methiocarb, sulfoxide and sulfone as methiocarb)	<0.01	mg / kg	0.1	-	AM/R/1003	
Sum of methomyl and thiodicarb	<0.01	mg / kg	0.1	-	AM/R/1003	
Methoprotryne	<0.01	mg / kg	-	-	AM/R/1003	
Methoxyfenozide	<0.01	mg / kg	0.05	-	AM/R/1003	
Metobromuron	<0.01	mg / kg	-	-	AM/R/1003	
Metolachlor	<0.01	mg / kg	0.05	-	AM/R/1003	
Metolcarb	<0.01	mg / kg	-	-	AM/R/1003	
Metoxuron	<0.01	mg / kg	-	-	AM/R/1003	
Metrafenone	<0.01	mg / kg	0.05	-	AM/R/1003	
Mevinphos	<0.01	mg / kg	0.02	-	AM/R/1003	
Mexacarbate	<0.01	mg / kg	-	-	AM/R/1003	
Molinate	<0.01	mg / kg	0.05	-	AM/R/1003	
Monolinuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Monuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Moxidectin	<0.01	mg / kg	-	-	AM/R/1003	
Napropamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Nitenpyram	<0.01	mg / kg	-	-	AM/R/1003	
Norflurazon	<0.01	mg / kg	-	-	AM/R/1003	
Novaluron	<0.01	mg / kg	0.01	-	AM/R/1003	
Oxadiazon	<0.01	mg / kg	0.05	-	AM/R/1003	
Oxamyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Paclobutrazol	<0.01	mg / kg	0.02	-	AM/R/1003	
Paraoxon	<0.01	mg / kg	-	-	AM/R/1003	
Paraoxon methyl	<0.01	mg / kg	-	-	AM/R/1003	
Pencycuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Penthiopyrad	<0.01	mg / kg	0.02	-	AM/R/1003	
Pethoxamid	<0.01	mg / kg	0.05	-	AM/R/1003	



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Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Phenmedipham	<0.01	mg / kg	0.05	-	AM/R/1003	
Phenothrin	<0.01	mg / kg	0.05	-	AM/R/1003	
Phenthoate	<0.01	mg / kg	-	-	AM/R/1003	
Phorate (sum of phorate, sulfoxide and sulfone expressed as phorate)	<0.01	mg / kg	0.05	-	AM/R/1003	
Phosalone	<0.01	mg / kg	0.05	-	AM/R/1003	
Phosfolan	<0.01	mg / kg	-	-	AM/R/1003	
Phosmet	<0.01	mg / kg	0.1	-	AM/R/1003	
Phoxim	<0.01	mg / kg	0.1	-	AM/R/1003	
Picolinafen	<0.01	mg / kg	0.05	-	AM/R/1003	
Picoxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Pinoxaden	<0.01	mg / kg	0.05	-	AM/R/1003	
Piperonyl Butoxide	<0.01	mg / kg	-	-	AM/R/1003	
Pirimicarb	<0.01	mg / kg	0.05	-	AM/R/1003	
desmethyl Pirimicarb	<0.01	mg / kg	-	-	AM/R/1003	
Sum of pirimicarb and desmethyl pirimicarb (expressed as pirimicarb)	<0.01	mg / kg	0.05	-	AM/R/1003	
Prochloraz (parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Profenofos	<0.01	mg / kg	0.05	-	AM/R/1003	
Promecarb	<0.01	mg / kg	-	-	AM/R/1003	
Prometon	<0.01	mg / kg	-	-	AM/R/1003	
Prometryn	<0.01	mg / kg	-	-	AM/R/1003	
Propamocarb Hydrochloride	<0.01	mg / kg	0.05	-	AM/R/1003	
Propanil	<0.01	mg / kg	0.05	-	AM/R/1003	
Propaquizafop	<0.01	mg / kg	0.05	-	AM/R/1003	
Propargite	<0.01	mg / kg	0.05	-	AM/R/1003	
Propazine	<0.01	mg / kg	-	-	AM/R/1003	
Propetamphos	<0.01	mg / kg	-	-	AM/R/1003	
Propham	<0.01	mg / kg	0.1	-	AM/R/1003	
Propiconazole	<0.01	mg / kg	0.1	-	AM/R/1003	
Propoxur	<0.01	mg / kg	0.1	-	AM/R/1003	
Propyzamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Proquinazid	<0.01	mg / kg	0.05	-	AM/R/1003	
Prosulfocarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Prothioconazole-desthio	<0.01	mg / kg	0.05	-	AM/R/1003	
Pyracarbolid	<0.01	mg / kg	-	-	AM/R/1003	
Pyraclostrobin	<0.01	mg / kg	0.1	-	AM/R/1003	
Pyraflufen ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Pyridaben	<0.01	mg / kg	0.05	-	AM/R/1003	
Pyrifenox	<0.01	mg / kg	-	-	AM/R/1003	
Pyriproxifen	<0.01	mg / kg	15	-	AM/R/1003	
Quassin (quassia)	<0.01	mg / kg	-	-	AM/R/1003	
Quinalphos	<0.01	mg / kg	0.1	-	AM/R/1003	
Quinoxifen	<0.01	mg / kg	0.05	-	AM/R/1003	
Quizalofop ethyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Resmethrin	<0.01	mg / kg	0.2	-	AM/R/1003	
Rotenone	<0.01	mg / kg	0.02	-	AM/R/1003	
Silthiofam	<0.01	mg / kg	0.05	-	AM/R/1003	
Simazine	<0.01	mg / kg	0.05	-	AM/R/1003	
Spinetoram	<0.01	mg / kg	0.1	-	AM/R/1003	
Spinosad	<0.01	mg / kg	0.1	-	AM/R/1003	
Spirodiclofen	<0.01	mg / kg	0.05	-	AM/R/1003	
Spiromesifen	<0.01	mg / kg	50	-	AM/R/1003	
Spirotetramat (parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Spiroxamine	<0.01	mg / kg	0.1	-	AM/R/1003	
tau-Fluvalinate	<0.01	mg / kg	0.01	-	AM/R/1003	
Tebufenozide	<0.01	mg / kg	0.1	-	AM/R/1003	
Tebufenpyrad	<0.01	mg / kg	0.1	-	AM/R/1003	
Tebupirimfos	<0.01	mg / kg	-	-	AM/R/1003	
Tebuthiuron	<0.01	mg / kg	-	-	AM/R/1003	
Temephos	<0.01	mg / kg	-	-	AM/R/1003	
Terbufos	<0.01	mg / kg	0.01	-	AM/R/1003	
Terbufos sulfone	<0.01	mg / kg	-	-	AM/R/1003	
Terbufos sulfoxide	<0.01	mg / kg	-	-	AM/R/1003	
Terbutylazine	<0.01	mg / kg	0.05	-	AM/R/1003	
Terbutryn	<0.01	mg / kg	-	-	AM/R/1003	
Tetraconazole	<0.01	mg / kg	0.02	-	AM/R/1003	



Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Tetramethrin	<0.01	mg / kg	-	-	AM/R/1003	
Thiacloprid	<0.01	mg / kg	10	-	AM/R/1003	
Thiamethoxam	<0.01	mg / kg	20	-	AM/R/1003	
Thiobencarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Thiophanate-Methyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Tolclofos-methyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Triazophos	<0.01	mg / kg	0.02	-	AM/R/1003	
Trichlorfon	<0.01	mg / kg	0.05	-	AM/R/1003	
Tridemorph	<0.01	mg / kg	0.05	-	AM/R/1003	
Trietazine	<0.01	mg / kg	-	-	AM/R/1003	
Trifloxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Triflumizole	<0.01	mg / kg	0.1	-	AM/R/1003	
Triflumuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Trimethacarb	<0.01	mg / kg	-	-	AM/R/1003	
Triconazole	<0.01	mg / kg	0.02	-	AM/R/1003	
Uniconazole	<0.01	mg / kg	-	-	AM/R/1003	
Vamidothion	<0.01	mg / kg	-	-	AM/R/1003	
Vernolate	<0.01	mg / kg	-	-	AM/R/1003	
XMC (3,5-xylol methylcarbamate)	<0.01	mg / kg	-	-	AM/R/1003	
Zoxamide	<0.01	mg / kg	0.05	-	AM/R/1003	
GC Pesticide Screen						
Acephate	<0.01	mg / kg	0.05	-	AM/R/110	
Aldrin	<0.01	mg / kg	-	-	AM/R/110	
Atrazine	<0.05	mg / kg	0.1	-	AM/R/110	
Azinphos-ethyl	<0.01	mg / kg	0.05	-	AM/R/110	
Azinphos-methyl	<0.01	mg / kg	0.1	-	AM/R/110	
Azoxystrobin	<0.01	mg / kg	0.05	-	AM/R/110	
Benalaxyl	<0.05	mg / kg	0.1	-	AM/R/110	
Bifenthrin	<0.02	mg / kg	5	-	AM/R/110	
Bromophos	<0.01	mg / kg	-	-	AM/R/110	
Bromophos-ethyl	<0.05	mg / kg	0.1	-	AM/R/110	
Bupirimate	<0.02	mg / kg	0.05	-	AM/R/110	
Buprofezin	<0.05	mg / kg	0.05	-	AM/R/110	
Cadusaphos	<0.01	mg / kg	0.01	-	AM/R/110	
Carbofuran (parent compound only)	<0.01	mg / kg	0.05	-	AM/R/110	
Carbophenothion	<0.01	mg / kg	-	-	AM/R/110	
Carbosulfan	<0.01	mg / kg	0.05	-	AM/R/110	
Chlordane (sum of cis & trans isomers)	<0.01	mg / kg	0.02	-	AM/R/110	
Chlorfenvinphos	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorothalonil	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorpropham	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorpyrifos	<0.01	mg / kg	0.1	-	AM/R/110	
Chlorpyrifos-methyl	<0.01	mg / kg	0.1	-	AM/R/110	
Chlorthal-dimethyl	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorthion	<0.05	mg / kg	-	-	AM/R/110	
Cyanazine	<0.05	mg / kg	-	-	AM/R/110	
Cyfluthrin (sum of isomers)	<0.02	mg / kg	0.1	-	AM/R/110	
Cyhalothrin - lambda	<0.02	mg / kg	1	-	AM/R/110	
Cypermethrin (sum of isomers)	<0.05	mg / kg	0.5	-	AM/R/110	
Cyproconazole	<0.05	mg / kg	0.05	-	AM/R/110	
DDT (sum of pp'-DDE,pp'-DDD,op'-DDT & pp'-DDT expressed as DDT)	<0.02	mg / kg	0.2	-	AM/R/110	
Deltamethrin	<0.05	mg / kg	5	-	AM/R/110	
Desmetryn	<0.05	mg / kg	-	-	AM/R/110	
Diazinon	<0.01	mg / kg	0.05	-	AM/R/110	
Dichlofluanid	<0.05	mg / kg	-	-	AM/R/110	
Dichlorvos	<0.01	mg / kg	0.02	-	AM/R/110	
Dicofol	<0.02	mg / kg	20	-	AM/R/110	
Dieldrin	<0.01	mg / kg	-	-	AM/R/110	
Sum of Aldrin and Dieldrin (expressed as Dieldrin)	<0.01	mg / kg	0.02	-	AM/R/110	
Difenoconazole	<0.05	mg / kg	0.05	-	AM/R/110	
Sum of Dimethoate and Omethoate	<0.02	mg / kg	0.05	-	AM/R/110	
Diphenylamine	<0.05	mg / kg	0.05	-	AM/R/110	
Endosulfan (sum of alpha and beta isomers and endosulfan sulphate)	<0.02	mg / kg	30	-	AM/R/110	



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Test	Result	Units	MRL	Rec. %	Method Number	Flag
GC Pesticide Screen						
Endrin	<0.01	mg / kg	0.01	-	AM/R/110	
Ethion	<0.01	mg / kg	3	-	AM/R/110	
Ethoprophos	<0.01	mg / kg	0.02	-	AM/R/110	
Etridiazole	<0.05	mg / kg	0.05	-	AM/R/110	
Etrimfos	<0.01	mg / kg	-	-	AM/R/110	
Fenarimol	<0.02	mg / kg	0.05	-	AM/R/110	
Fenchlorphos (parent compound only)	<0.01	mg / kg	0.1	-	AM/R/110	
Fenitrothion	<0.01	mg / kg	0.05	-	AM/R/110	
Fenvalerate (sum of RR, SS, SR and RS isomers) including esfenvalerate	<0.02	mg / kg	0.1	-	AM/R/110	
Fluazifop-p-butyl	<0.05	mg / kg	0.05	-	AM/R/110	
Flucythrinate (sum of isomers)	<0.05	mg / kg	0.1	-	AM/R/110	
Fonofos	<0.01	mg / kg	-	-	AM/R/110	
Heptachlor (sum of heptachlor & heptachlor epoxide expressed as heptachlor)	<0.01	mg / kg	0.02	-	AM/R/110	
Heptenophos	<0.01	mg / kg	-	-	AM/R/110	
HCB	<0.01	mg / kg	0.02	-	AM/R/110	
Hexachlorocyclohexane - gamma	<0.01	mg / kg	0.05	-	AM/R/110	
Hexachlorocyclohexane - Sum of isomers other than gamma	<0.01	mg / kg	0.02	-	AM/R/110	
Hexaconazole	<0.01	mg / kg	0.05	-	AM/R/110	
Imazalil	<0.02	mg / kg	0.1	-	AM/R/110	
Iodofenphos	<0.05	mg / kg	-	-	AM/R/110	
Iprodione	<0.01	mg / kg	0.05	-	AM/R/110	
Kresoxim-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Malathion (parent compound only)	<0.02	mg / kg	0.5	-	AM/R/110	
Metalaxyl and metalaxyl-M (sum of isomers)	<0.02	mg / kg	0.1	-	AM/R/110	
Methacrifos	<0.01	mg / kg	0.1	-	AM/R/110	
Methamidophos	<0.01	mg / kg	0.05	-	AM/R/110	
Methidathion	<0.02	mg / kg	0.1	-	AM/R/110	
Methoxychlor	<0.01	mg / kg	0.1	-	AM/R/110	
Metribuzin	<0.05	mg / kg	0.1	-	AM/R/110	
Mevinphos	<0.01	mg / kg	0.02	-	AM/R/110	
Oxadixyl	<0.01	mg / kg	0.02	-	AM/R/110	
Parathion	<0.01	mg / kg	0.1	-	AM/R/110	
Parathion-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Penconazole	<0.05	mg / kg	0.1	-	AM/R/110	
Pendimethalin	<0.05	mg / kg	0.05	-	AM/R/110	
Permethrin (sum of isomers)	<0.05	mg / kg	0.1	-	AM/R/110	
Phosalone	<0.01	mg / kg	0.05	-	AM/R/110	
Phosmet	<0.05	mg / kg	0.1	-	AM/R/110	
Phosphamidon	<0.01	mg / kg	0.02	-	AM/R/110	
Pirimicarb	<0.01	mg / kg	0.05	-	AM/R/110	
Pirimiphos-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Procymidone	<0.01	mg / kg	0.05	-	AM/R/110	
Prometryn	<0.05	mg / kg	-	-	AM/R/110	
Propachlor	<0.02	mg / kg	0.1	-	AM/R/110	
Propham	<0.05	mg / kg	0.1	-	AM/R/110	
Propiconazole	<0.05	mg / kg	0.1	-	AM/R/110	
Propyzamide	<0.01	mg / kg	0.05	-	AM/R/110	
Quinalphos	<0.02	mg / kg	0.1	-	AM/R/110	
Quintozene (sum of quintozene & pentachloroaniline expressed as quintozene)	<0.01	mg / kg	0.1	-	AM/R/110	
Simazine	<0.01	mg / kg	0.05	-	AM/R/110	
Sulfotep	<0.01	mg / kg	-	-	AM/R/110	
Tebuconazole	<0.02	mg / kg	0.05	-	AM/R/110	
Tecnazene	<0.02	mg / kg	0.1	-	AM/R/110	
Tefluthrin	<0.01	mg / kg	0.05	-	AM/R/110	
Terbutylazine	<0.05	mg / kg	0.05	-	AM/R/110	
Terbutryn	<0.05	mg / kg	-	-	AM/R/110	
Tetradifon	<0.01	mg / kg	0.05	-	AM/R/110	
Tolclofos-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Tolyfluanid	<0.01	mg / kg	0.05	-	AM/R/110	
Sum of Triadimefon and Triadimenol	<0.02	mg / kg	0.2	-	AM/R/110	
Triazophos	<0.01	mg / kg	0.02	-	AM/R/110	
Trifluralin	<0.01	mg / kg	0.05	-	AM/R/110	





Food & Pharmaceutical

Certificate Number: TCHC398037-1 Final

Sample Ref.: CHC567365

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Test	Result	Units	MRL	Rec. %	Method Number	Flag
<u>GC Pesticide Screen</u> Vinclozolin (parent compound only)	<0.05	mg / kg	0.1	-	AMR/110	

Jonathan Bruss

Section Head

For and on Behalf of ALS Food and Pharmaceutical

Disclaimers:

MRL = UK Maximum Residue Level for Tea (dried leaves and stalks, fermented or otherwise of Camellia sinensis)

Rec. = Recovery efficiency of analytical method. The results on this certificate have not been corrected for recovery efficiency unless stated.

Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.

Unless otherwise stated, all results are expressed on an as received basis.

Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.

Certificate Number: TCHC398038-1 Final

Lab Ref.:

CHC567366

Mr Thomas O'Sullivan
Advance Micro Services & Environmental
Laboratories Ltd
Carrigeen Industrial Estate
Clonmel, Tipperary
Ireland
Fax: 052 61 78133

Date Analysis Started:

19/01/2017

Country of Origin:
Date Reported:

27/01/2017

Commodity: Tea (dried leaves and stalks, fermented or otherwise of Camellia sinensis)

Sample Details: Desc: 2559280 Guayusa Leaf Tea Batch: IK005.

Order No: CGES-429120117

Date Received: 18/01/2017

Date Tested: 18/01/2017

Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Abamectin	<0.01	mg / kg	0.05	-	AM/R/1003	
Acetamiprid	<0.01	mg / kg	0.05	-	AM/R/1003	
Acrinathrin	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of aldicarb, aldicarb sulfoxide & sulfone (expressed as aldicarb)	<0.01	mg / kg	0.05	-	AM/R/1003	
Allethrin	<0.01	mg / kg	-	-	AM/R/1003	
Aminocarbazono	<0.01	mg / kg	-	-	AM/R/1003	
Aminocarb	<0.01	mg / kg	-	-	AM/R/1003	
Atrazine	<0.01	mg / kg	0.1	-	AM/R/1003	
Azaconazole	<0.01	mg / kg	-	-	AM/R/1003	
Azamethiphos	<0.01	mg / kg	-	-	AM/R/1003	
Bellubetamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Bendiocarb	<0.01	mg / kg	-	-	AM/R/1003	
Benzoximate	<0.01	mg / kg	-	-	AM/R/1003	
Bifenazate	<0.01	mg / kg	0.05	-	AM/R/1003	
Bifenox	<0.01	mg / kg	0.05	-	AM/R/1003	
Bixafen	<0.01	mg / kg	0.01	-	AM/R/1003	
Boscalid	<0.01	mg / kg	0.01	-	AM/R/1003	
Bromacil	<0.01	mg / kg	-	-	AM/R/1003	
Buprofezin	<0.01	mg / kg	0.05	-	AM/R/1003	
Butocarboxim	<0.01	mg / kg	-	-	AM/R/1003	
Butralin	<0.01	mg / kg	0.05	-	AM/R/1003	
Carbaryl	<0.01	mg / kg	0.05	-	AM/R/1003	
Carbetamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of carbofuran & 3-OH carbofuran (expressed as carbofuran)	<0.001	mg / kg	0.05	-	AM/R/1003	
Carbosulfan	<0.01	mg / kg	0.05	-	AM/R/1003	
Carboxin	<0.01	mg / kg	0.05	-	AM/R/1003	
Carfentrazone-ethyl	<0.01	mg / kg	0.02	-	AM/R/1003	
Chlorantraniliprole	<0.01	mg / kg	0.02	-	AM/R/1003	
Chloridazon	<0.01	mg / kg	0.1	-	AM/R/1003	
Chlortoluron	<0.01	mg / kg	0.05	-	AM/R/1003	
Chlorthiophos	<0.01	mg / kg	-	-	AM/R/1003	
Cinidon-ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Clofentezine	<0.01	mg / kg	0.05	-	AM/R/1003	
Clomazone	<0.01	mg / kg	0.05	-	AM/R/1003	
Clothianidin	<0.01	mg / kg	0.7	-	AM/R/1003	
Coumaphos	<0.01	mg / kg	-	-	AM/R/1003	
Cruformate	<0.01	mg / kg	-	-	AM/R/1003	
Cyanazine	<0.01	mg / kg	-	-	AM/R/1003	
Cyazofamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Cycloate	<0.01	mg / kg	-	-	AM/R/1003	
Cycluron	<0.01	mg / kg	-	-	AM/R/1003	
Cyflufenamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Cymiazole	<0.01	mg / kg	-	-	AM/R/1003	
Cymoxanil	<0.01	mg / kg	0.05	-	AM/R/1003	
DEET (N,N-dimethyl-m-toluamide)	<0.01	mg / kg	-	-	AM/R/1003	



Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Demeton-S-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Oxydemeton-methyl (sum of oxydemeton-me and dem-S-me sulfone as oxydemeton-me)	<0.01	mg / kg	0.05	-	AM/R/1003	
Desmedipham	<0.01	mg / kg	0.05	-	AM/R/1003	
Desmetryn	<0.01	mg / kg	-	-	AM/R/1003	
Dialifos	<0.01	mg / kg	-	-	AM/R/1003	
Diclofop-methyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Dicrotophos	<0.01	mg / kg	-	-	AM/R/1003	
Diethofencarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Diflubenzuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Diflufenican	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethachlor	<0.01	mg / kg	0.02	-	AM/R/1003	
Dimethenamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of Dimethoate and Omethoate	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethomorph	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethylvinphos	<0.01	mg / kg	-	-	AM/R/1003	
Dimoxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Diniconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Dinotefuran	<0.01	mg / kg	-	-	AM/R/1003	
Dioxacarb	<0.01	mg / kg	-	-	AM/R/1003	
Diphenamid	<0.01	mg / kg	-	-	AM/R/1003	
Disulfoton (sum of disulfoton, sulfoxide and sulfone expressed as disulfoton)	<0.01	mg / kg	-	-	AM/R/1003	
Diuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Emamectin	<0.01	mg / kg	0.02	-	AM/R/1003	
Epoxiconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Ethidimuron (sulfodiazole)	<0.01	mg / kg	-	-	AM/R/1003	
Ethion	<0.01	mg / kg	3	-	AM/R/1003	
Ethofumesate	<0.01	mg / kg	0.1	-	AM/R/1003	
Ethoprophos	<0.01	mg / kg	0.02	-	AM/R/1003	
Etofenprox	<0.01	mg / kg	0.01	-	AM/R/1003	
Famoxadone	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenamidone	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of fenamiphos, fenamiphos sulfone and fenamiphos sulfoxide	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenarimol	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenazaquin	<0.01	mg / kg	10	-	AM/R/1003	
Fenbuconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenchlorphos oxon	<0.01	mg / kg	-	-	AM/R/1003	
Fenhexamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenobucarb	<0.01	mg / kg	-	-	AM/R/1003	
Fenoxaprop-P-ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Fenoxycarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenpropathrin	<0.01	mg / kg	2	-	AM/R/1003	
Fenpropidin	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenpyroximate	<0.01	mg / kg	0.1	-	AM/R/1003	
Sum of fenthion, fenthion sulfone and fenthion sulfoxide	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenuron	<0.01	mg / kg	-	-	AM/R/1003	
Fipronil	<0.005	mg / kg	0.005	-	AM/R/1003	
Flamprop isopropyl	<0.01	mg / kg	-	-	AM/R/1003	
Flonicamid (Parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Flubendiamide	<0.01	mg / kg	0.02	-	AM/R/1003	
Flucythrinate (sum of isomers)	<0.01	mg / kg	0.1	-	AM/R/1003	
Fludioxonil	<0.01	mg / kg	0.05	-	AM/R/1003	
Flufenacet	<0.01	mg / kg	0.05	-	AM/R/1003	
Flufenoxuron	<0.01	mg / kg	15	-	AM/R/1003	
Flumorph	<0.01	mg / kg	-	-	AM/R/1003	
Fluometuron	<0.01	mg / kg	0.02	-	AM/R/1003	
Fluopicolide	<0.01	mg / kg	0.02	-	AM/R/1003	
Fluoxastrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Fluquinconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Flurochloridone	<0.01	mg / kg	-	-	AM/R/1003	
Flurtamone	<0.01	mg / kg	0.05	-	AM/R/1003	
Flusilazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Flutolanil	<0.01	mg / kg	0.05	-	AM/R/1003	
Flutriafol	<0.01	mg / kg	0.05	-	AM/R/1003	



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Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Formetanate hydrochloride	<0.01	mg / kg	0.05	-	AM/R/1003	
Formothion	<0.01	mg / kg	0.05	-	AM/R/1003	
Fosthiazate	<0.01	mg / kg	0.05	-	AM/R/1003	
Furalaxyl	<0.01	mg / kg	-	-	AM/R/1003	
Furalthiocarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Guthion	<0.01	mg / kg	-	-	AM/R/1003	
Halofenozide	<0.01	mg / kg	-	-	AM/R/1003	
Haloxypop-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Hexaflumuron	<0.01	mg / kg	-	-	AM/R/1003	
Hexazinone	<0.01	mg / kg	-	-	AM/R/1003	
Hexythiazox	<0.01	mg / kg	4	-	AM/R/1003	
Imidacloprid	<0.01	mg / kg	0.05	-	AM/R/1003	
Indoxacarb	<0.01	mg / kg	5	-	AM/R/1003	
Iponazole	<0.01	mg / kg	0.02	-	AM/R/1003	
Iprobenfos	<0.01	mg / kg	-	-	AM/R/1003	
Iprovalicarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Isocarbofos	<0.01	mg / kg	-	-	AM/R/1003	
Isufenphos-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Isoprothiolane	<0.01	mg / kg	0.01	-	AM/R/1003	
Isoproturon	<0.01	mg / kg	0.05	-	AM/R/1003	
Isopyrazam	<0.01	mg / kg	0.01	-	AM/R/1003	
Isoxaben	<0.01	mg / kg	0.02	-	AM/R/1003	
Isoxaflutole (parent)	<0.01	mg / kg	0.1	-	AM/R/1003	
Ivermectin	<0.01	mg / kg	-	-	AM/R/1003	
Lenacil	<0.01	mg / kg	0.1	-	AM/R/1003	
Linuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Lufenuron	<0.01	mg / kg	0.02	-	AM/R/1003	
Sum of malathion and malaoxon (expressed as malathion)	<0.01	mg / kg	0.5	-	AM/R/1003	
Mandipropamid	<0.01	mg / kg	0.02	-	AM/R/1003	
Mecarbam	<0.01	mg / kg	0.1	-	AM/R/1003	
Mephosfolan	<0.01	mg / kg	-	-	AM/R/1003	
Mepronil	<0.01	mg / kg	0.05	-	AM/R/1003	
Metaflumizone	<0.01	mg / kg	0.1	-	AM/R/1003	
Metamitron	<0.01	mg / kg	0.1	-	AM/R/1003	
Metazachlor (Parent Only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Metconazole	<0.01	mg / kg	0.1	-	AM/R/1003	
Methabenzthiazuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Methacrifos	<0.01	mg / kg	0.1	-	AM/R/1003	
Methiocarb (sum of methiocarb, sulfoxide and sulfone as methiocarb)	<0.01	mg / kg	0.1	-	AM/R/1003	
Sum of methomyl and thiodicarb	<0.01	mg / kg	0.1	-	AM/R/1003	
Methoprotryne	<0.01	mg / kg	-	-	AM/R/1003	
Methoxyfenozide	<0.01	mg / kg	0.05	-	AM/R/1003	
Metobromuron	<0.01	mg / kg	-	-	AM/R/1003	
Metolachlor	<0.01	mg / kg	0.05	-	AM/R/1003	
Metolcarb	<0.01	mg / kg	-	-	AM/R/1003	
Metoxuron	<0.01	mg / kg	-	-	AM/R/1003	
Metrafenone	<0.01	mg / kg	0.05	-	AM/R/1003	
Mevinphos	<0.01	mg / kg	0.02	-	AM/R/1003	
Mexacarbate	<0.01	mg / kg	-	-	AM/R/1003	
Molinate	<0.01	mg / kg	0.05	-	AM/R/1003	
Monolinuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Monuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Moxidectin	<0.01	mg / kg	-	-	AM/R/1003	
Napropamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Nitenpyram	<0.01	mg / kg	-	-	AM/R/1003	
Norflurazon	<0.01	mg / kg	-	-	AM/R/1003	
Novaluron	<0.01	mg / kg	0.01	-	AM/R/1003	
Oxadiazon	<0.01	mg / kg	0.05	-	AM/R/1003	
Oxamyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Paclobutrazol	<0.01	mg / kg	0.02	-	AM/R/1003	
Paraoxon	<0.01	mg / kg	-	-	AM/R/1003	
Paraoxon methyl	<0.01	mg / kg	-	-	AM/R/1003	
Pencycuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Penthiopyrad	<0.01	mg / kg	0.02	-	AM/R/1003	
Pethoxamid	<0.01	mg / kg	0.05	-	AM/R/1003	



Certificate Number: TCHC398038-1 Final

Sample Ref.: CHC567366

Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Phenmedipham	<0.01	mg / kg	0.05	-	AM/R/1003	
Phenothrin	<0.01	mg / kg	0.05	-	AM/R/1003	
Phenthoate	<0.01	mg / kg	-	-	AM/R/1003	
Phorate (sum of phorate, sulfoxide and sulfone expressed as phorate)	<0.01	mg / kg	0.05	-	AM/R/1003	
Phosalone	<0.01	mg / kg	0.05	-	AM/R/1003	
Phosfolan	<0.01	mg / kg	-	-	AM/R/1003	
Phosmet	<0.01	mg / kg	0.1	-	AM/R/1003	
Phoxim	<0.01	mg / kg	0.1	-	AM/R/1003	
Picolinafen	<0.01	mg / kg	0.05	-	AM/R/1003	
Picoxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Pinoxaden	<0.01	mg / kg	0.05	-	AM/R/1003	
Piperonyl Butoxide	<0.01	mg / kg	-	-	AM/R/1003	
Pirimicarb	<0.01	mg / kg	0.05	-	AM/R/1003	
desmethyl Pirimicarb	<0.01	mg / kg	-	-	AM/R/1003	
Sum of pirimicarb and desmethyl pirimicarb (expressed as pirimicarb)	<0.01	mg / kg	0.05	-	AM/R/1003	
Prochloraz (parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Profenofos	<0.01	mg / kg	0.05	-	AM/R/1003	
Promecarb	<0.01	mg / kg	-	-	AM/R/1003	
Prometon	<0.01	mg / kg	-	-	AM/R/1003	
Prometryn	<0.01	mg / kg	-	-	AM/R/1003	
Propamocarb Hydrochloride	<0.01	mg / kg	0.05	-	AM/R/1003	
Propanil	<0.01	mg / kg	0.05	-	AM/R/1003	
Propaquizafop	<0.01	mg / kg	0.05	-	AM/R/1003	
Propargite	<0.01	mg / kg	0.05	-	AM/R/1003	
Propazine	<0.01	mg / kg	-	-	AM/R/1003	
Propetamphos	<0.01	mg / kg	-	-	AM/R/1003	
Propham	<0.01	mg / kg	0.1	-	AM/R/1003	
Propiconazole	<0.01	mg / kg	0.1	-	AM/R/1003	
Propoxur	<0.01	mg / kg	0.1	-	AM/R/1003	
Propyzamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Proquinazid	<0.01	mg / kg	0.05	-	AM/R/1003	
Prosulfocarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Prothioconazole-desthio	<0.01	mg / kg	0.05	-	AM/R/1003	
Pyracarbolid	<0.01	mg / kg	-	-	AM/R/1003	
Pyraclostrobin	<0.01	mg / kg	0.1	-	AM/R/1003	
Pyralufen ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Pyridaben	<0.01	mg / kg	0.05	-	AM/R/1003	
Pyrifenox	<0.01	mg / kg	-	-	AM/R/1003	
Pyriproxifen	<0.01	mg / kg	15	-	AM/R/1003	
Quassin (quassia)	<0.01	mg / kg	-	-	AM/R/1003	
Quinalphos	<0.01	mg / kg	0.1	-	AM/R/1003	
Quinoxifen	<0.01	mg / kg	0.05	-	AM/R/1003	
Quizalofop ethyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Resmethrin	<0.01	mg / kg	0.2	-	AM/R/1003	
Rotenone	<0.01	mg / kg	0.02	-	AM/R/1003	
Silthiofam	<0.01	mg / kg	0.05	-	AM/R/1003	
Simazine	<0.01	mg / kg	0.05	-	AM/R/1003	
Spinetoram	<0.01	mg / kg	0.1	-	AM/R/1003	
Spinosad	<0.01	mg / kg	0.1	-	AM/R/1003	
Spirodiclofen	<0.01	mg / kg	0.05	-	AM/R/1003	
Spiromesifen	<0.01	mg / kg	50	-	AM/R/1003	
Spirotetramat (parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Spiroxamine	<0.01	mg / kg	0.1	-	AM/R/1003	
tau-Fluvalinate	<0.01	mg / kg	0.01	-	AM/R/1003	
Tebufenozide	<0.01	mg / kg	0.1	-	AM/R/1003	
Tebufenpyrad	<0.01	mg / kg	0.1	-	AM/R/1003	
Tebupirimfos	<0.01	mg / kg	-	-	AM/R/1003	
Tebuthiuron	<0.01	mg / kg	-	-	AM/R/1003	
Temephos	<0.01	mg / kg	-	-	AM/R/1003	
Terbufos	<0.01	mg / kg	0.01	-	AM/R/1003	
Terbufos sulfone	<0.01	mg / kg	-	-	AM/R/1003	
Terbufos sulfoxide	<0.01	mg / kg	-	-	AM/R/1003	
Terbutylazine	<0.01	mg / kg	0.05	-	AM/R/1003	
Terbutryn	<0.01	mg / kg	-	-	AM/R/1003	
Tetraconazole	<0.01	mg / kg	0.02	-	AM/R/1003	



Certificate Number: TCHC398038-1 Final

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Test	Result	Units	MRL	Rec. %	Method Number	Flag
<u>LCMS/MS Pesticide Screen</u>						
Tetramethrin	<0.01	mg / kg	-	-	AM/R/1003	
Thiacloprid	<0.01	mg / kg	10	-	AM/R/1003	
Thiamethoxam	<0.01	mg / kg	20	-	AM/R/1003	
Thiobencarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Thiophanate-Methyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Tolclofos-methyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Triazophos	<0.01	mg / kg	0.02	-	AM/R/1003	
Trichlorfon	<0.01	mg / kg	0.05	-	AM/R/1003	
Tridemorph	<0.01	mg / kg	0.05	-	AM/R/1003	
Trietazine	<0.01	mg / kg	-	-	AM/R/1003	
Trifloxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Triflumizole	<0.01	mg / kg	0.1	-	AM/R/1003	
Triflumuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Trimethacarb	<0.01	mg / kg	-	-	AM/R/1003	
Triticonazole	<0.01	mg / kg	0.02	-	AM/R/1003	
Uniconazole	<0.01	mg / kg	-	-	AM/R/1003	
Vamidothion	<0.01	mg / kg	-	-	AM/R/1003	
Vernolate	<0.01	mg / kg	-	-	AM/R/1003	
XMC (3,5-xyllyl methylcarbamate)	<0.01	mg / kg	-	-	AM/R/1003	
Zoxamide	<0.01	mg / kg	0.05	-	AM/R/1003	
<u>GC Pesticide Screen</u>						
Accephate	<0.01	mg / kg	0.05	-	AM/R/110	
Aldrin	<0.01	mg / kg	-	-	AM/R/110	
Atrazine	<0.05	mg / kg	0.1	-	AM/R/110	
Azinphos-ethyl	<0.01	mg / kg	0.05	-	AM/R/110	
Azinphos-methyl	<0.01	mg / kg	0.1	-	AM/R/110	
Azoxystrobin	<0.01	mg / kg	0.05	-	AM/R/110	
Benalaxyl	<0.05	mg / kg	0.1	-	AM/R/110	
Bifenthrin	<0.02	mg / kg	5	-	AM/R/110	
Bromophos	<0.01	mg / kg	-	-	AM/R/110	
Bromophos-ethyl	<0.05	mg / kg	0.1	-	AM/R/110	
Bupirimate	<0.02	mg / kg	0.05	-	AM/R/110	
Buprofezin	<0.05	mg / kg	0.05	-	AM/R/110	
Cadusaphos	<0.01	mg / kg	0.01	-	AM/R/110	
Carbofuran (parent compound only)	<0.01	mg / kg	0.05	-	AM/R/110	
Carbophenothion	<0.01	mg / kg	-	-	AM/R/110	
Carbosulfan	<0.01	mg / kg	0.05	-	AM/R/110	
Chlordane (sum of cis & trans isomers)	<0.01	mg / kg	0.02	-	AM/R/110	
Chlorfenvinphos	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorothalonil	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorpropham	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorpyrifos	<0.01	mg / kg	0.1	-	AM/R/110	
Chlorpyrifos-methyl	<0.01	mg / kg	0.1	-	AM/R/110	
Chlorthal-dimethyl	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorthion	<0.05	mg / kg	-	-	AM/R/110	
Cyanazine	<0.05	mg / kg	-	-	AM/R/110	
Cyfluthrin (sum of isomers)	<0.02	mg / kg	0.1	-	AM/R/110	
Cyhalothrin - lambda	<0.02	mg / kg	1	-	AM/R/110	
Cypermethrin (sum of isomers)	<0.05	mg / kg	0.5	-	AM/R/110	
Cyproconazole	<0.05	mg / kg	0.05	-	AM/R/110	
DDT (sum of pp'-DDE,pp'-DDD,op'-DDT & pp'-DDT expressed as DDT)	<0.02	mg / kg	0.2	-	AM/R/110	
Deltamethrin	<0.05	mg / kg	5	-	AM/R/110	
Desmetyrn	<0.05	mg / kg	-	-	AM/R/110	
Diazinon	<0.01	mg / kg	0.05	-	AM/R/110	
Dichlofluanid	<0.05	mg / kg	-	-	AM/R/110	
Dichlorvos	<0.01	mg / kg	0.02	-	AM/R/110	
Dicofol	<0.02	mg / kg	20	-	AM/R/110	
Dieldrin	<0.01	mg / kg	-	-	AM/R/110	
Sum of Aldrin and Dieldrin (expressed as Dieldrin)	<0.01	mg / kg	0.02	-	AM/R/110	
Difenoconazole	<0.05	mg / kg	0.05	-	AM/R/110	
Sum of Dimethoate and Omethoate	<0.02	mg / kg	0.05	-	AM/R/110	
Diphenylamine	<0.05	mg / kg	0.05	-	AM/R/110	
Endosulfan (sum of alpha and beta isomers and endosulfan sulphate)	<0.02	mg / kg	30	-	AM/R/110	



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Test	Result	Units	MRL	Rec. %	Method Number	Flag
GC Pesticide Screen						
Endrin	<0.01	mg / kg	0.01	-	AM/R/110	
Ethion	<0.01	mg / kg	3	-	AM/R/110	
Ethoprophos	<0.01	mg / kg	0.02	-	AM/R/110	
Etridiazole	<0.05	mg / kg	0.05	-	AM/R/110	
Etrinfos	<0.01	mg / kg	-	-	AM/R/110	
Fenarimol	<0.02	mg / kg	0.05	-	AM/R/110	
Fenchlorphos (parent compound only)	<0.01	mg / kg	0.1	-	AM/R/110	
Fenitrothion	<0.01	mg / kg	0.05	-	AM/R/110	
Fenvalerate (sum of RR, SS, SR and RS isomers) including esfenvalerate	<0.02	mg / kg	0.1	-	AM/R/110	
Fluazifop-p-butyl	<0.05	mg / kg	0.05	-	AM/R/110	
Flucythrinate (sum of isomers)	<0.05	mg / kg	0.1	-	AM/R/110	
Fonofos	<0.01	mg / kg	-	-	AM/R/110	
Heptachlor (sum of heptachlor & heptachlor epoxide expressed as heptachlor)	<0.01	mg / kg	0.02	-	AM/R/110	
Heptenophos	<0.01	mg / kg	-	-	AM/R/110	
HCB	<0.01	mg / kg	0.02	-	AM/R/110	
Hexachlorocyclohexane - gamma	<0.01	mg / kg	0.05	-	AM/R/110	
Hexachlorocyclohexane - Sum of isomers other than gamma	<0.01	mg / kg	0.02	-	AM/R/110	
Hexaconazole	<0.01	mg / kg	0.05	-	AM/R/110	
Imazalil	<0.02	mg / kg	0.1	-	AM/R/110	
Iodofenphos	<0.05	mg / kg	-	-	AM/R/110	
Iprodione	<0.01	mg / kg	0.05	-	AM/R/110	
Kresoxim-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Malathion (parent compound only)	<0.02	mg / kg	0.5	-	AM/R/110	
Metalaxyl and metalaxyl-M (sum of isomers)	<0.02	mg / kg	0.1	-	AM/R/110	
Methacrifos	<0.01	mg / kg	0.1	-	AM/R/110	
Methamidophos	<0.01	mg / kg	0.05	-	AM/R/110	
Methidathion	<0.02	mg / kg	0.1	-	AM/R/110	
Methoxychlor	<0.01	mg / kg	0.1	-	AM/R/110	
Metribuzin	<0.05	mg / kg	0.1	-	AM/R/110	
Mevinphos	<0.01	mg / kg	0.02	-	AM/R/110	
Oxadixyl	<0.01	mg / kg	0.02	-	AM/R/110	
Parathion	<0.01	mg / kg	0.1	-	AM/R/110	
Parathion-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Penconazole	<0.05	mg / kg	0.1	-	AM/R/110	
Pendimethalin	<0.05	mg / kg	0.05	-	AM/R/110	
Permethrin (sum of isomers)	<0.05	mg / kg	0.1	-	AM/R/110	
Phosalone	<0.01	mg / kg	0.05	-	AM/R/110	
Phosmet	<0.05	mg / kg	0.1	-	AM/R/110	
Phosphamidon	<0.01	mg / kg	0.02	-	AM/R/110	
Pirimicarb	<0.01	mg / kg	0.05	-	AM/R/110	
Pirimiphos-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Procymidone	<0.01	mg / kg	0.05	-	AM/R/110	
Prometryn	<0.05	mg / kg	-	-	AM/R/110	
Propachlor	<0.02	mg / kg	0.1	-	AM/R/110	
Propham	<0.05	mg / kg	0.1	-	AM/R/110	
Propiconazole	<0.05	mg / kg	0.1	-	AM/R/110	
Propyzamide	<0.01	mg / kg	0.05	-	AM/R/110	
Quinalphos	<0.02	mg / kg	0.1	-	AM/R/110	
Quintozene (sum of quintozene & pentachloroaniline expressed as quintozene)	<0.01	mg / kg	0.1	-	AM/R/110	
Simazine	<0.01	mg / kg	0.05	-	AM/R/110	
Sulfotep	<0.01	mg / kg	-	-	AM/R/110	
Tebuconazole	<0.02	mg / kg	0.05	-	AM/R/110	
Tecnazene	<0.02	mg / kg	0.1	-	AM/R/110	
Tefluthrin	<0.01	mg / kg	0.05	-	AM/R/110	
Terbutylazine	<0.05	mg / kg	0.05	-	AM/R/110	
Terbutryn	<0.05	mg / kg	-	-	AM/R/110	
Tetradifon	<0.01	mg / kg	0.05	-	AM/R/110	
Tolclofos-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Tolyfluanid	<0.01	mg / kg	0.05	-	AM/R/110	
Sum of Triadimefon and Triadimenol	<0.02	mg / kg	0.2	-	AM/R/110	
Triazophos	<0.01	mg / kg	0.02	-	AM/R/110	
Trifluralin	<0.01	mg / kg	0.05	-	AM/R/110	





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Test	Result	Units	MRL	Rec. %	Method Number	Flag
GC Pesticide Screen Vinclozolin (parent compound only)	<0.05	mg / kg	0.1	-	AM/R/110	

Jonathan Bruss

Section Head

For and on Behalf of ALS Food and Pharmaceutical

Disclaimers:

MRL = UK Maximum Residue Level for Tea (dried leaves and stalks, fermented or otherwise of Camellia sinensis)

Rec. = Recovery efficiency of analytical method. The results on this certificate have not been corrected for recovery efficiency unless stated.

Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.

Unless otherwise stated, all results are expressed on an as received basis.

Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.

Certificate Number: TCHC398043-1 Final

Lab Ref.: CHC567367

Mr Thomas O'Sullivan
Advance Micro Services & Environmental
Laboratories Ltd
Carrigeen Industrial Estate
Clonmel, Tipperary
Ireland
Fax: 052 61 78133
Date Analysis Started: 19/01/2017

Country of Origin:
Date Reported: 27/01/2017

Commodity: Maté

Sample Details: Desc: 2559281 Yerba Mate.

Order No: CGES-429120117

Date Received: 18/01/2017

Date Tested: 18/01/2017

Test	Result	Units	MRL	Rec. %	Method Number	Flag
GC Pesticide Screen						
Cyhalothrin - lambda	0.022	mg / kg	1	-	AM/R/110	
LCMS/MS Pesticide Screen						
Abamectin	<0.01	mg / kg	0.05	-	AM/R/1003	
Acetamiprid	<0.01	mg / kg	0.05	-	AM/R/1003	
Acrinathrin	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of aldicarb, aldicarb sulfoxide & sulfone (expressed as aldicarb)	<0.01	mg / kg	0.05	-	AM/R/1003	
Allethrin	<0.01	mg / kg	-	-	AM/R/1003	
Amicarbazone	<0.01	mg / kg	-	-	AM/R/1003	
Aminocarb	<0.01	mg / kg	-	-	AM/R/1003	
Atrazine	<0.01	mg / kg	0.1	-	AM/R/1003	
Azaconazole	<0.01	mg / kg	-	-	AM/R/1003	
Azamethiphos	<0.01	mg / kg	-	-	AM/R/1003	
Beflubetamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Bendiocarb	<0.01	mg / kg	-	-	AM/R/1003	
Benzoximate	<0.01	mg / kg	-	-	AM/R/1003	
Bifenazate	<0.01	mg / kg	0.05	-	AM/R/1003	
Bifenox	<0.01	mg / kg	0.05	-	AM/R/1003	
Bixafen	<0.01	mg / kg	0.01	-	AM/R/1003	
Boscalid	<0.01	mg / kg	0.9	-	AM/R/1003	
Bromacil	<0.01	mg / kg	-	-	AM/R/1003	
Buprofezin	<0.01	mg / kg	0.05	-	AM/R/1003	
Butocarboxim	<0.01	mg / kg	-	-	AM/R/1003	
Butralin	<0.01	mg / kg	0.05	-	AM/R/1003	
Carbaryl	<0.01	mg / kg	0.1	-	AM/R/1003	
Carbetamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of carbofuran & 3-OH carbofuran (expressed as carbofuran)	<0.001	mg / kg	0.05	-	AM/R/1003	
Carbosulfan	<0.01	mg / kg	0.05	-	AM/R/1003	
Carboxin	<0.01	mg / kg	0.05	-	AM/R/1003	
Carfentrazone-ethyl	<0.01	mg / kg	0.02	-	AM/R/1003	
Chlorantraniliprole	<0.01	mg / kg	0.02	-	AM/R/1003	
Chloridazon	<0.01	mg / kg	5	-	AM/R/1003	
Chlortoluron	<0.01	mg / kg	0.05	-	AM/R/1003	
Chlorthiophos	<0.01	mg / kg	-	-	AM/R/1003	
Cinidon-ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Clofentezine	<0.01	mg / kg	0.05	-	AM/R/1003	
Clomazone	<0.01	mg / kg	0.05	-	AM/R/1003	
Clothianidin	<0.01	mg / kg	0.05	-	AM/R/1003	
Coumaphos	<0.01	mg / kg	-	-	AM/R/1003	
Crufomate	<0.01	mg / kg	-	-	AM/R/1003	
Cyanazine	<0.01	mg / kg	-	-	AM/R/1003	
Cyazofamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Cycloate	<0.01	mg / kg	-	-	AM/R/1003	
Cycluron	<0.01	mg / kg	-	-	AM/R/1003	
Cyflufenamid	<0.01	mg / kg	0.05	-	AM/R/1003	



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Sample Ref.: CHC567367

Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Cymiazole	<0.01	mg / kg	-	-	AM/R/1003	
Cymoxanil	<0.01	mg / kg	0.05	-	AM/R/1003	
DEET (N,N-dimethyl-m-toluamide)	<0.01	mg / kg	-	-	AM/R/1003	
Demeton-S-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Oxydemeton-methyl (sum of oxydemeton-me and dem-S-me sulfone as oxydemeton-me)	<0.01	mg / kg	0.05	-	AM/R/1003	
Desmedipham	<0.01	mg / kg	0.05	-	AM/R/1003	
Desmetryn	<0.01	mg / kg	-	-	AM/R/1003	
Dialifos	<0.01	mg / kg	-	-	AM/R/1003	
Diclofop-methyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Diclotophos	<0.01	mg / kg	-	-	AM/R/1003	
Diethofencarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Diflubenzuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Diflufenican	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethachlor	<0.01	mg / kg	0.02	-	AM/R/1003	
Dimethenamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of Dimethoate and Omethoate	<0.01	mg / kg	0.1	-	AM/R/1003	
Dimethomorph	<0.01	mg / kg	0.05	-	AM/R/1003	
Dimethylvinphos	<0.01	mg / kg	-	-	AM/R/1003	
Dimoxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Diniconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Dinotefuran	<0.01	mg / kg	-	-	AM/R/1003	
Dioxacarb	<0.01	mg / kg	-	-	AM/R/1003	
Diphenamid	<0.01	mg / kg	-	-	AM/R/1003	
Disulfoton (sum of disulfoton, sulfoxide and sulfone expressed as disulfoton)	<0.01	mg / kg	-	-	AM/R/1003	
Diuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Emamectin	<0.01	mg / kg	0.02	-	AM/R/1003	
Epoxiconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Ethidimuron (sulfodiazole)	<0.01	mg / kg	-	-	AM/R/1003	
Ethion	<0.01	mg / kg	0.05	-	AM/R/1003	
Ethofumesate	<0.01	mg / kg	15	-	AM/R/1003	
Ethoprophos	<0.01	mg / kg	0.02	-	AM/R/1003	
Etofenprox	<0.01	mg / kg	0.01	-	AM/R/1003	
Famoxadone	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenamidone	<0.01	mg / kg	0.05	-	AM/R/1003	
Sum of fenamiphos, fenamiphos sulfone and fenamiphos sulfoxide	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenarimol	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenazaquin	<0.01	mg / kg	0.01	-	AM/R/1003	
Fenbuconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenchlorphos oxon	<0.01	mg / kg	-	-	AM/R/1003	
Fenhexamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenobucarb	<0.01	mg / kg	-	-	AM/R/1003	
Fenoxaprop-P-ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Fenoxycarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenpropathrin	<0.01	mg / kg	0.02	-	AM/R/1003	
Fenpropidin	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenpyroximate	<0.01	mg / kg	0.1	-	AM/R/1003	
Sum of fenthion, fenthion sulfone and fenthion sulfoxide	<0.01	mg / kg	0.05	-	AM/R/1003	
Fenuron	<0.01	mg / kg	-	-	AM/R/1003	
Fipronil	<0.005	mg / kg	0.005	-	AM/R/1003	
Flamprop isopropyl	<0.01	mg / kg	-	-	AM/R/1003	
Flonicamid (Parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Flubendiamide	<0.01	mg / kg	0.02	-	AM/R/1003	
Flucythrinate (sum of isomers)	<0.01	mg / kg	0.1	-	AM/R/1003	
Fludioxonil	<0.01	mg / kg	0.05	-	AM/R/1003	
Flufenacet	<0.01	mg / kg	0.05	-	AM/R/1003	
Flufenoxuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Flumorph	<0.01	mg / kg	-	-	AM/R/1003	
Fluometuron	<0.01	mg / kg	0.02	-	AM/R/1003	
Fluopicolide	<0.01	mg / kg	0.02	-	AM/R/1003	
Fluoxastrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Fluquinconazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Flurochloridone	<0.01	mg / kg	-	-	AM/R/1003	
Flurtamone	<0.01	mg / kg	0.05	-	AM/R/1003	



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Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Flusilazole	<0.01	mg / kg	0.05	-	AM/R/1003	
Flutolanil	<0.01	mg / kg	0.05	-	AM/R/1003	
Flutriafol	<0.01	mg / kg	0.05	-	AM/R/1003	
Formetanate hydrochloride	<0.01	mg / kg	0.05	-	AM/R/1003	
Formothion	<0.01	mg / kg	0.05	-	AM/R/1003	
Fosthiazate	<0.01	mg / kg	0.05	-	AM/R/1003	
Furalaxyl	<0.01	mg / kg	-	-	AM/R/1003	
Furathiocarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Guthion	<0.01	mg / kg	-	-	AM/R/1003	
Halofenozide	<0.01	mg / kg	-	-	AM/R/1003	
Haloxypop-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Hexaflumuron	<0.01	mg / kg	-	-	AM/R/1003	
Hexazinone	<0.01	mg / kg	-	-	AM/R/1003	
Hexythiazox	<0.01	mg / kg	0.05	-	AM/R/1003	
Imidacloprid	<0.01	mg / kg	0.05	-	AM/R/1003	
Indoxacarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Ipcnazole	<0.01	mg / kg	0.02	-	AM/R/1003	
Iprobenfos	<0.01	mg / kg	-	-	AM/R/1003	
Iprovalicarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Isocarbophos	<0.01	mg / kg	-	-	AM/R/1003	
Isofenphos-methyl	<0.01	mg / kg	-	-	AM/R/1003	
Isoprothiolane	<0.01	mg / kg	0.01	-	AM/R/1003	
Isoproturon	<0.01	mg / kg	0.05	-	AM/R/1003	
Isopyrazam	<0.01	mg / kg	0.01	-	AM/R/1003	
Isoxaben	<0.01	mg / kg	0.02	-	AM/R/1003	
Isoxaflutole (parent)	<0.01	mg / kg	0.1	-	AM/R/1003	
Ivermectin	<0.01	mg / kg	-	-	AM/R/1003	
Lebacil	<0.01	mg / kg	0.1	-	AM/R/1003	
Linuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Lufenuron	<0.01	mg / kg	0.02	-	AM/R/1003	
Sum of malathion and malaoxon (expressed as malathion)	<0.01	mg / kg	0.02	-	AM/R/1003	
Mandipropamid	<0.01	mg / kg	0.02	-	AM/R/1003	
Mecarbam	<0.01	mg / kg	0.1	-	AM/R/1003	
Mephosfolan	<0.01	mg / kg	-	-	AM/R/1003	
Mepronil	<0.01	mg / kg	0.05	-	AM/R/1003	
Metaflumizone	<0.01	mg / kg	0.1	-	AM/R/1003	
Metamitron	<0.01	mg / kg	0.1	-	AM/R/1003	
Metazachlor (Parent Only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Metconazole	<0.01	mg / kg	0.1	-	AM/R/1003	
Methabenzthiazuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Methacryfos	<0.01	mg / kg	0.1	-	AM/R/1003	
Methiocarb (sum of methiocarb, sulfoxide and sulfone as methiocarb)	<0.01	mg / kg	0.1	-	AM/R/1003	
Sum of methomyl and thiodicarb	<0.01	mg / kg	0.1	-	AM/R/1003	
Methoprotiryne	<0.01	mg / kg	-	-	AM/R/1003	
Methoxyfenozide	<0.01	mg / kg	0.05	-	AM/R/1003	
Metobromuron	<0.01	mg / kg	-	-	AM/R/1003	
Metolachlor	<0.01	mg / kg	0.05	-	AM/R/1003	
Metolcarb	<0.01	mg / kg	-	-	AM/R/1003	
Metoxuron	<0.01	mg / kg	-	-	AM/R/1003	
Metrafenone	<0.01	mg / kg	0.05	-	AM/R/1003	
Mevinphos	<0.01	mg / kg	0.02	-	AM/R/1003	
Mexacarbate	<0.01	mg / kg	-	-	AM/R/1003	
Molinate	<0.01	mg / kg	0.05	-	AM/R/1003	
Monolinuron	<0.01	mg / kg	0.1	-	AM/R/1003	
Monuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Moxideclin	<0.01	mg / kg	-	-	AM/R/1003	
Napropamide	<0.01	mg / kg	0.05	-	AM/R/1003	
Nitenpyram	<0.01	mg / kg	-	-	AM/R/1003	
Norflurazon	<0.01	mg / kg	-	-	AM/R/1003	
Novaluron	<0.01	mg / kg	0.01	-	AM/R/1003	
Oxadiazon	<0.01	mg / kg	0.05	-	AM/R/1003	
Oxamyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Paclbutrazol	<0.01	mg / kg	0.02	-	AM/R/1003	
Paraoxon	<0.01	mg / kg	-	-	AM/R/1003	
Paraoxon methyl	<0.01	mg / kg	-	-	AM/R/1003	



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Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Pencycuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Penthiopyrad	<0.01	mg / kg	0.02	-	AM/R/1003	
Pelthoxamid	<0.01	mg / kg	0.05	-	AM/R/1003	
Phenmedipham	<0.01	mg / kg	0.05	-	AM/R/1003	
Phenothrin	<0.01	mg / kg	0.05	-	AM/R/1003	
Phenthoate	<0.01	mg / kg	-	-	AM/R/1003	
Phorate (sum of phorate, sulfoxide and sulfone expressed as phorate)	<0.01	mg / kg	0.05	-	AM/R/1003	
Phosalone	<0.01	mg / kg	0.05	-	AM/R/1003	
Phosfolan	<0.01	mg / kg	-	-	AM/R/1003	
Phosmet	<0.01	mg / kg	0.1	-	AM/R/1003	
Phoxim	<0.01	mg / kg	0.1	-	AM/R/1003	
Picolinafen	<0.01	mg / kg	0.05	-	AM/R/1003	
Picoxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Pinoxaden	<0.01	mg / kg	0.05	-	AM/R/1003	
Piperonyl Butoxide	<0.01	mg / kg	-	-	AM/R/1003	
Pirimicarb	<0.01	mg / kg	10	-	AM/R/1003	
desmethyl Pirimicarb	<0.01	mg / kg	-	-	AM/R/1003	
Sum of pirimicarb and desmethyl pirimicarb (expressed as pirimicarb)	<0.01	mg / kg	10	-	AM/R/1003	
Prochloraz (parent only)	<0.01	mg / kg	0.2	-	AM/R/1003	
Profenofos	<0.01	mg / kg	0.05	-	AM/R/1003	
Promecarb	<0.01	mg / kg	-	-	AM/R/1003	
Prometon	<0.01	mg / kg	-	-	AM/R/1003	
Prometryn	<0.01	mg / kg	-	-	AM/R/1003	
Propamocarb Hydrochloride	<0.01	mg / kg	0.05	-	AM/R/1003	
Propanil	<0.01	mg / kg	0.05	-	AM/R/1003	
Propaquizafop	<0.01	mg / kg	0.05	-	AM/R/1003	
Propargite	<0.01	mg / kg	0.05	-	AM/R/1003	
Propazine	<0.01	mg / kg	-	-	AM/R/1003	
Propetamphos	<0.01	mg / kg	-	-	AM/R/1003	
Propham	<0.01	mg / kg	0.1	-	AM/R/1003	
Propiconazole	<0.01	mg / kg	0.1	-	AM/R/1003	
Propoxur	<0.01	mg / kg	0.1	-	AM/R/1003	
Propyzamide	<0.01	mg / kg	0.4	-	AM/R/1003	
Proquinazid	<0.01	mg / kg	0.05	-	AM/R/1003	
Prosulfocarb	<0.01	mg / kg	2	-	AM/R/1003	
Prothioconazole-desthio	<0.01	mg / kg	0.05	-	AM/R/1003	
Pyracarbolid	<0.01	mg / kg	-	-	AM/R/1003	
Pyraclostrobin	<0.01	mg / kg	0.1	-	AM/R/1003	
Pyraflufen ethyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Pyridaben	<0.01	mg / kg	0.05	-	AM/R/1003	
Pyrifenox	<0.01	mg / kg	-	-	AM/R/1003	
Pyriproxifen	<0.01	mg / kg	0.05	-	AM/R/1003	
Quassin (quassia)	<0.01	mg / kg	-	-	AM/R/1003	
Quinalphos	<0.01	mg / kg	0.1	-	AM/R/1003	
Quinoxifen	<0.01	mg / kg	0.05	-	AM/R/1003	
Quizalofop ethyl	<0.01	mg / kg	1	-	AM/R/1003	
Resmethrin	<0.01	mg / kg	0.2	-	AM/R/1003	
Rotenone	<0.01	mg / kg	0.02	-	AM/R/1003	
Silthiofam	<0.01	mg / kg	0.05	-	AM/R/1003	
Simazine	<0.01	mg / kg	0.05	-	AM/R/1003	
Spinetoram	<0.01	mg / kg	0.1	-	AM/R/1003	
Spinosad	<0.01	mg / kg	0.1	-	AM/R/1003	
Spirodiclofen	<0.01	mg / kg	0.05	-	AM/R/1003	
Spiromesifen	<0.01	mg / kg	0.02	-	AM/R/1003	
Spirotetramat (parent only)	<0.01	mg / kg	0.1	-	AM/R/1003	
Spiroxamine	<0.01	mg / kg	0.1	-	AM/R/1003	
tau-Fluvalinate	<0.01	mg / kg	0.01	-	AM/R/1003	
Tebufenozide	<0.01	mg / kg	0.1	-	AM/R/1003	
Tebufenpyrad	<0.01	mg / kg	0.1	-	AM/R/1003	
Tebupirimfos	<0.01	mg / kg	-	-	AM/R/1003	
Tebuthiuron	<0.01	mg / kg	-	-	AM/R/1003	
Temephos	<0.01	mg / kg	-	-	AM/R/1003	
Terbufos	<0.01	mg / kg	0.01	-	AM/R/1003	
Terbufos sulfone	<0.01	mg / kg	-	-	AM/R/1003	
Terbufos sulfoxide	<0.01	mg / kg	-	-	AM/R/1003	



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Test	Result	Units	MRL	Rec. %	Method Number	Flag
LCMS/MS Pesticide Screen						
Terbutylazine	<0.01	mg / kg	0.05	-	AM/R/1003	
Terbutryn	<0.01	mg / kg	-	-	AM/R/1003	
Tetraconazole	<0.01	mg / kg	0.02	-	AM/R/1003	
Tetramethrin	<0.01	mg / kg	-	-	AM/R/1003	
Thiacloprid	<0.01	mg / kg	50	-	AM/R/1003	
Thiamethoxam	<0.01	mg / kg	0.05	-	AM/R/1003	
Thiobencarb	<0.01	mg / kg	0.05	-	AM/R/1003	
Thiophanate-Methyl	<0.01	mg / kg	0.1	-	AM/R/1003	
Tolclofos-methyl	<0.01	mg / kg	0.05	-	AM/R/1003	
Triazophos	<0.01	mg / kg	0.02	-	AM/R/1003	
Trichlorfon	<0.01	mg / kg	0.05	-	AM/R/1003	
Tridemorph	<0.01	mg / kg	0.05	-	AM/R/1003	
Trietazine	<0.01	mg / kg	-	-	AM/R/1003	
Trifloxystrobin	<0.01	mg / kg	0.05	-	AM/R/1003	
Triflumizole	<0.01	mg / kg	0.1	-	AM/R/1003	
Triflumuron	<0.01	mg / kg	0.05	-	AM/R/1003	
Trimethacarb	<0.01	mg / kg	-	-	AM/R/1003	
Triticonazole	<0.01	mg / kg	0.02	-	AM/R/1003	
Uniconazole	<0.01	mg / kg	-	-	AM/R/1003	
Vamidothion	<0.01	mg / kg	-	-	AM/R/1003	
Vernolate	<0.01	mg / kg	-	-	AM/R/1003	
XMC (3,5-xylol methylcarbamate)	<0.01	mg / kg	-	-	AM/R/1003	
Zoxamide	<0.01	mg / kg	0.05	-	AM/R/1003	
GC Pesticide Screen						
Acephate	<0.01	mg / kg	0.05	-	AM/R/110	
Aldrin	<0.01	mg / kg	-	-	AM/R/110	
Atrazine	<0.05	mg / kg	0.1	-	AM/R/110	
Azinphos-ethyl	<0.01	mg / kg	0.05	-	AM/R/110	
Azinphos-methyl	<0.01	mg / kg	0.1	-	AM/R/110	
Azoxystrobin	<0.01	mg / kg	60	-	AM/R/110	
Benalaxyl	<0.05	mg / kg	0.1	-	AM/R/110	
Bifenthrin	<0.02	mg / kg	0.1	-	AM/R/110	
Bromophos	<0.01	mg / kg	-	-	AM/R/110	
Bromophos-ethyl	<0.05	mg / kg	0.1	-	AM/R/110	
Bupirimate	<0.02	mg / kg	0.05	-	AM/R/110	
Buprofezin	<0.05	mg / kg	0.05	-	AM/R/110	
Cadusaphos	<0.01	mg / kg	0.01	-	AM/R/110	
Carbofuran (parent compound only)	<0.01	mg / kg	0.05	-	AM/R/110	
Carbophenothion	<0.01	mg / kg	-	-	AM/R/110	
Carbosulfan	<0.01	mg / kg	0.05	-	AM/R/110	
Chlordane (sum of cis & trans isomers)	<0.01	mg / kg	0.02	-	AM/R/110	
Chlorfenvinphos	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorothalonil	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorpropham	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorpyrifos	<0.01	mg / kg	0.5	-	AM/R/110	
Chlorpyrifos-methyl	<0.01	mg / kg	0.1	-	AM/R/110	
Chlorthal-dimethyl	<0.01	mg / kg	0.05	-	AM/R/110	
Chlorthion	<0.05	mg / kg	-	-	AM/R/110	
Cyanazine	<0.05	mg / kg	-	-	AM/R/110	
Cyfluthrin (sum of isomers)	<0.02	mg / kg	0.1	-	AM/R/110	
Cypermethrin (sum of isomers)	<0.05	mg / kg	0.1	-	AM/R/110	
Cyproconazole	<0.05	mg / kg	0.05	-	AM/R/110	
DDT (sum of pp'-DDE, pp'-DDD, op'-DDT & pp'-DDT expressed as DDT)	<0.02	mg / kg	0.5	-	AM/R/110	
Deltamethrin	<0.05	mg / kg	0.05	-	AM/R/110	
Desmetyrn	<0.05	mg / kg	-	-	AM/R/110	
Diazinon	<0.01	mg / kg	0.05	-	AM/R/110	
Dichlofluanid	<0.05	mg / kg	-	-	AM/R/110	
Dichlorvos	<0.01	mg / kg	0.02	-	AM/R/110	
Dicofol	<0.02	mg / kg	0.1	-	AM/R/110	
Dieldrin	<0.01	mg / kg	-	-	AM/R/110	
Sum of Aldrin and Dieldrin (expressed as Dieldrin)	<0.01	mg / kg	0.02	-	AM/R/110	
Difenoconazole	<0.05	mg / kg	20	-	AM/R/110	
Sum of Dimethoate and Omethoate	<0.02	mg / kg	0.1	-	AM/R/110	



Test	Result	Units	MRL	Rec. %	Method Number	Flag
GC Pesticide Screen						
Diphenylamine	<0.05	mg / kg	0.05	-	AM/R/110	
Endosulfan (sum of alpha and beta isomers and endosulfan sulphate)	<0.02	mg / kg	0.1	-	AM/R/110	
Endrin	<0.01	mg / kg	0.1	-	AM/R/110	
Ethion	<0.01	mg / kg	0.05	-	AM/R/110	
Ethoprophos	<0.01	mg / kg	0.02	-	AM/R/110	
Etridiazole	<0.05	mg / kg	0.05	-	AM/R/110	
Etrimfos	<0.01	mg / kg	-	-	AM/R/110	
Fenarimol	<0.02	mg / kg	0.05	-	AM/R/110	
Fenchlorphos (parent compound only)	<0.01	mg / kg	0.1	-	AM/R/110	
Fenitrothion	<0.01	mg / kg	0.05	-	AM/R/110	
Fenvalerate (sum of RR, SS, SR and RS isomers) including esfenvalerate	<0.02	mg / kg	0.1	-	AM/R/110	
Fluazifop-p-butyl	<0.05	mg / kg	0.04	-	AM/R/110	
Flucythrinate (sum of isomers)	<0.05	mg / kg	0.1	-	AM/R/110	
Fonofos	<0.01	mg / kg	-	-	AM/R/110	
Heptachlor (sum of heptachlor & heptachlor epoxide expressed as heptachlor)	<0.01	mg / kg	0.1	-	AM/R/110	
Heptenophos	<0.01	mg / kg	-	-	AM/R/110	
HCB	<0.01	mg / kg	0.02	-	AM/R/110	
Hexachlorocyclohexane - gamma	<0.01	mg / kg	1	-	AM/R/110	
Hexachlorocyclohexane - Sum of isomers other than gamma	<0.01	mg / kg	0.02	-	AM/R/110	
Hexaconazole	<0.01	mg / kg	0.05	-	AM/R/110	
Imazalil	<0.02	mg / kg	0.1	-	AM/R/110	
Iodofenphos	<0.05	mg / kg	-	-	AM/R/110	
Iprodione	<0.01	mg / kg	0.05	-	AM/R/110	
Kresoxim-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Malathion (parent compound only)	<0.02	mg / kg	0.02	-	AM/R/110	
Metalaxyl and metalaxyl-M (sum of isomers)	<0.02	mg / kg	0.1	-	AM/R/110	
Methacrifos	<0.01	mg / kg	0.1	-	AM/R/110	
Methamidophos	<0.01	mg / kg	0.05	-	AM/R/110	
Methidathion	<0.02	mg / kg	0.1	-	AM/R/110	
Methoxychlor	<0.01	mg / kg	0.1	-	AM/R/110	
Metribuzin	<0.05	mg / kg	0.1	-	AM/R/110	
Mevinphos	<0.01	mg / kg	0.02	-	AM/R/110	
Oxadixyl	<0.01	mg / kg	0.02	-	AM/R/110	
Parathion	<0.01	mg / kg	0.1	-	AM/R/110	
Parathion-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Penconazole	<0.05	mg / kg	0.1	-	AM/R/110	
Pendimethalin	<0.05	mg / kg	0.05	-	AM/R/110	
Permethrin (sum of isomers)	<0.05	mg / kg	0.1	-	AM/R/110	
Phosalone	<0.01	mg / kg	0.05	-	AM/R/110	
Phosmet	<0.05	mg / kg	0.1	-	AM/R/110	
Phosphamidon	<0.01	mg / kg	0.02	-	AM/R/110	
Pirimicarb	<0.01	mg / kg	10	-	AM/R/110	
Pirimiphos-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Procymidone	<0.01	mg / kg	0.1	-	AM/R/110	
Prometryn	<0.05	mg / kg	-	-	AM/R/110	
Propachlor	<0.02	mg / kg	0.1	-	AM/R/110	
Propham	<0.05	mg / kg	0.1	-	AM/R/110	
Propiconazole	<0.05	mg / kg	0.1	-	AM/R/110	
Propyzamide	<0.01	mg / kg	0.4	-	AM/R/110	
Quinalphos	<0.02	mg / kg	0.1	-	AM/R/110	
Quintozene (sum of quintozene & pentachloroaniline expressed as quintozene)	<0.01	mg / kg	0.1	-	AM/R/110	
Simazine	<0.01	mg / kg	0.05	-	AM/R/110	
Sulfotep	<0.01	mg / kg	-	-	AM/R/110	
Tebuconazole	<0.02	mg / kg	0.05	-	AM/R/110	
Tecnazene	<0.02	mg / kg	0.1	-	AM/R/110	
Tefluthrin	<0.01	mg / kg	0.05	-	AM/R/110	
Terbutylazine	<0.05	mg / kg	0.05	-	AM/R/110	
Terbutryn	<0.05	mg / kg	-	-	AM/R/110	
Tetradifon	<0.01	mg / kg	0.05	-	AM/R/110	
Tolclofos-methyl	<0.01	mg / kg	0.05	-	AM/R/110	
Tolyfluanid	<0.01	mg / kg	0.05	-	AM/R/110	
Sum of Triadimefon and Triadimenol	<0.02	mg / kg	0.2	-	AM/R/110	

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Test	Result	Units	MRL	Rec. %	Method Number	Flag
GC Pesticide Screen						
Triazophos	<0.01	mg / kg	0.02	-	AM/R/110	
Trifluralin	<0.01	mg / kg	0.05	-	AM/R/110	
Vinclozolin (parent compound only)	<0.05	mg / kg	0.1	-	AM/R/110	



Jonathan Bruss

Section Head

For and on Behalf of ALS Food and Pharmaceutical

Disclaimers:

MRL = UK Maximum Residue Level for Maté

Rec. = Recovery efficiency of analytical method. The results on this certificate have not been corrected for recovery efficiency unless stated.

Recoveries were performed on a selection of compounds representative of the pesticide classes analysed in this test.

The testing results in this certificate relate only to the samples described above.

Unless otherwise stated, all results are expressed on an as received basis.

Chemistry Samples will be retained for a period of 30 calendar days from the date reported unless otherwise agreed in writing with the Laboratory.





Quality Certification Services
hereby certifies that

Jumandipro S.A.

Moscu N34-95 y República del Salvado, Inpaqto Quito Quito, Ecuador

Meets the strict standards to be

CERTIFIED ORGANIC

EC 834/2007 and 889/2008

QCS Entity ID: 2319H

Effective Date: April 20, 2016

Expiration Date: February 5, 2017

Issue Date: April 20, 2016

Anniversary: January 22, 2017

Date of Last Inspection: February 5, 2016

Scope: Exporter/Handling

Parcel location(s): See Product Verification Form

Certified Product(s): See Product Verification Form

Ramkrishnan, Chief Operating Officer

Quality Certification Services has determined based on the review of the above named entity's application and records, and inspection of its fields, facilities and processes, that the entity meets or exceeds the appropriate and applicable standards of organic production handling and processing as established in standards equivalent to EC 834/2007 and 889/2008. In displaying this certificate, the Certified Entity warrants that it is in, and will remain in, full compliance with EC 834/2007 and 889/2008.

QCS is a CAEQ accredited EU Equivalency certification program who has demonstrated compliance to the International Organization for Standardization Guide 65 for competency and reliability through completion of an accreditation audit by the Committee on Accreditation for Evaluation of Quality (CAEQ) for the verification and application of the EC 834 / 2007 y 889/2008 standards.

PO Box 12311, Gainesville FL 32604 USA, 352 377 0133 - www.qcsinfo.org



Quality Certification Services
hereby certifies that

Jumandipro S.A.

Moscu N34-95 y República del Salvado, Inpaqto Quito Quito, Ecuador

meets the strict standards to be

CERTIFIED ORGANIC

under the US National Organic Program 7 CFR Part 205

QCS Entity ID: 2919H

Effective Date: 04/20/2016

Date of Last Inspection: 2/5/2016

Anniversary Date: 1/22/2017



Scope: Exporter/Handling

Parcel Location(s): See Product Verification Form

Certified Product(s): See Product Verification Form

Issue Date: 04/20/2016

Ramkrishnan, Chief Operating Officer

Quality Certification Services, a USDA National Organic Program and ISO-65 compliant certification program, has determined, based on a review of the above named entity's application and records, and inspection of its fields, facilities and processes, that the above named entity meets or exceeds the appropriate and applicable standards of organic production, handling, and processing. In displaying this certificate, the Certified Entity warrants that it is in, and will remain in, full compliance with the organic standards set by the USDA National Organic Program. Once certified, a production or handling operation's organic certification continues in effect until surrendered, suspended or revoked.

PO Box 12311 Gainesville FL 32604 USA – 352 377 0133 – Fax 352 377 8363 – www.qcsinfo.org



Quality Certification Services
hereby certifies that

Jumandripo S.A.

Moscú N34-95 y República del Salvado, Impaqto Quito Quito, Ecuador

meets the strict standards to be

CERTIFIED ORGANIC

under the US National Organic Program 7 CFR Part 205

QCS Entity ID: 2317GG

Effective Date: 4/18/2016

Date of Last Inspection: 2/5/2016

Anniversary Date: 1/22/2017



Scope: Crops

Parcel Location(s): See Product Verification Form

Certified Product(s): See Product Verification Form

Issue Date: 04/18/2016

Ramkrishnan, Chief Operating Officer

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CS-E-01 NOP Certificate, V1, R4, 05/13/14



Ministerio
de Salud Pública

Agencia Nacional de Regulación, Control
y Vigilancia Sanitaria - ARCSA



REPÚBLICA DEL ECUADOR
MINISTERIO DE SALUD PÚBLICA

AGENCIA NACIONAL DE REGULACIÓN, CONTROL Y VIGILANCIA SANITARIA

**CERTIFICADO DE NOTIFICACIÓN SANITARIA NO 13447-ALN-0117
DE PRODUCTOS ALIMENTICIOS NACIONALES**

Agencia Nacional de Regulación, Control y Vigilancia Sanitaria certifica que el

Producto denominado : GUAYUSA VERDE DESHIDRATADA

Marca : WAYKANA

CUP : ALB12690BOL

Elaborado por : JUMANDIPRO S.A., QUITO - ECUADOR

Titular : JUMANDIPRO S.A., QUITO - ECUADOR

A solicitud de : JUMANDIPRO S.A., QUITO - ECUADOR

Tipo de Alimento : Sopas, salsas, aderezos, snacks, hierbas y sus productos

Envase : Externo : -SOBREENVOLTURA (POLIPROPILENO BIORIENTADO MATE + POLIPROPILENO BIORIENTADO METALIZADO) / CAJA DE CARTÓN
Interno : -HILO ALGODÓN VEGETAL / PAPEL FILTRO (PULPA DE MADERA / FIBRA DE POLIPROPILENO)

Contenido : 30g (20 sobres de 1,5g)

Forma de Conservación : Ambiente fresco y seco

Fórmula de Composición/Lista de Ingredientes (En Orden Decreciente)

GUAYUSA.....100%

Período de Vida Útil : 365 días

Venta : Libre

Solicitud No. : 16785174201700000003P

Ciudad de Emisión : QUITO

Fecha de Emisión : 24/01/2017

Fecha de Vigencia : 24/01/2022

Documento firmado Electrónicamente

**MILTON BENITO MEDINA
ALMEIDA**

**Coordinador General
Técnico de Certificaciones**