

## CERTIFICATE OF ANALYSIS

PMC Biogenix, Inc 1231 Pope Street Memphis,TN,38108

United States Phone

800 641 2152 Fax VAT# 800 641 2153 FR83 512 461 435

BRENNTAG MID SOUTH INC

BMS CHARLOTTE(S) **DEA REG NO. 005377BUY.** 

CHARLOTTE, NC, 28273, United States

A/c#:18512

ATTN

Customer PO Number: (756837-) Sales Order Number 1475349

26-DEC-2017 Ship Date

Material 10110. **Customer Item Code** : 499809 Note

: MATERIAL CODE: 499809 -MEM-718542 Batch Qty

**BOL Number** 

141018782

Carrier/Trailer Number

**CUSTOMER ROUTED** 

Way Bill Number : HYSTRENE 5016 NF FOOD GRADE FLAKE/50LB OMP BG STEARIC HYSTRENE 5016 NF FG FLAKE/50LB OMP BG

Batch 10,000.00 LBS Order Qty LBS Manufacture Date 14-DEC-2017 **Review Date** 

			Lower	Upper		
Characteristic	Unit	Value	Limit	Limit		Method
* ACID NUMBER	mgKOH/g	208.40	206.00	210.00		FA1003
* ACIDITY		PASS				NF
* APPEARANCE, WHT WAXY FLAKE		PASS				VISUAL
* COLOR STANDARD BY		PASS				NF
* COLOR STANDARD Y		PASS				NF
* GLC C16+C18	%	98.9	90.0	100.0		FA1015
* GLC-C14	%	0.7	0.0	5.0		FA1015
* GLC-C16	%	52.1	46.0	56.0		FA1015
* GLC-C18	%	46.8	40.0	50.0		FA1015
* HEAVY METALS	%	0.0000	0.0000	0.0010		NF
* IDENTIFICATION A - FREEZING POINT	Deg C	55.3	53.0	59.0		NF
* IDENTIFICATION B - ACID NUMBER	num	208.4	194.0	211.0		NF
* IDENTIFICATION C - PALMITIC ACID		PASS				NF
* IDENTIFICATION C - STEARIC ACID		PASS				NF
* IODINE VALUE	g 1/100g	0.2	0.0	0.5		WM1009
* LOVIBOND (5.25) RED	FL	0.00	0.00	0.10		WM1002
* LOVIBOND (5.25) YELLOW	FL	0.50	0.00	1.00		WM1002
* MELT POINT CLOSED TUBE	Deg C	57.4	56.0	58.0		NF
* ODOR		PASS				OLFACTORY
* ORGANIC VOLATILES		PASS				NF
* RESIDUAL SOLVENTS		PASS			MEETS REQUIREMENT	NF
* RESIDUE ON IGNITION	%	0.0000	0.0000	0.1000		NF
* SAP VALUE	mgKOH/g	209.0	207.0	211.0		FA1007
* TITER	Deg C	55.3	54.50	56.50		FA1005A
* TRANS @ 440 nm	%	97.6	92.0	100.0		FA1023
* TRANS @ 550 nm	%	99.8	98.0	100.0		FA1023
* UNSAPONIFIABLES	%	0.12	0.00	0.20		FA1006
* WATER	%	0.01	0.00	0.20		WM1011

Site of Manufacture: PMC Biogenix, Inc,1231 Pope Street, Memphis, TN 38108, United States SHIP-BM1-776-Template-(BM1) COA Ref : BM1-173616-2

NF designation implies test method conforms to standard practice as defined by current NF at the time of production. Based on knowledge of the manufacturing process and controlled handling, shipping and storage of this material, there is no potential for Residual Solvents defined as Class 1, Class 2, or Class 3), no other organic solvents including but not limited to those listed in <467>, or current edition of the United States Pharmacopoeia at the time of production are used. This material, if tested, will comply with established standards.

Jane Parks

Manager,Lab,Quality Control

PLEASE READ CAREFULLY. Seller expressly disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages. Conditions of use of the product are beyond Seller's control and therefore users are responsible to verify this data under its own operating conditions to determine whether the product is suitable for its particular purposes. Buyer knowingly assumes all risks of use, handling, and disposal of the product, or from the publication or use of, or reliance upon, the information contained herein. It is also Buyer's responsibility to check the relevant product data sheets and respective MSDS made available by Seller. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any process. Nothing herein shall constitute permission or a recommendation to use the product in any manner that may violate the rights of any third part of any Federar's State. Local or foreign laws, and nothing herein in any way limits or precludes the operation and effect of any of the provisions of any sales contract(s) or any of the provisions of sale, which are available upon request.

Pages 1 of 2 effect of any of the provisions of any sales contract(s) or any Printed on: 26-DEC-2017 12:12:34 - BIOVICKERS www.pmc-group.com

IMPORTANT: All information provided is believed to be accurate and complete. The data provided is representative of the product quality on the date of analysis for the lot number indicated. This certificate of analysis may not include all of the constituents of the product. Persons using this information should make their own determination regarding its suitability for their particular application. This certificate of analysis shall not in any way limit or preclude the operation and effect of the applicable terms and conditions of sale.