

Certificate of Analysis

Botanoceutical Products, Inc.

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Product Code

023

Product Name

Cetyl Myristoleate (CMO) (20%) Powder- Fatty Acid Complex

(50 % Mixed Cetyl Esters on Corn Starch as a Powder) / Origin Bovine (Beef Tallow)

Appearance

White to off-white, soft dry powder

CAS Number

Cetyl Myristoleate CAS No. 64660-84-0

Lot Number

PAUL00007304

Date of Manufacture

April 2024

Date of Retest¹

3 years from Date of Manufacture

Country of Origin

USA

Chemistry:

Cetyl Myristoleate (CMO) is the hexadecyl ester of cis-9-tetradecenoic acid, commonly known as myristoleic acid. Myristoleic acid is classified as a monoethenoid fatty acid.

Ingredients

Cetyl Myristoleate (20%), Corn Starch

Non-GMO, Gluten Free

Package(s)

5 kg pail, 25 kg drum

CETYL ESTER/Powder Profile	METHOD	SPECIFICATION	RESULT ² (%)
<C14:0	AOCS Ce 1c-89	≤10%	2
C14:0 Cetyl Myristate	AOCS Ce 1c-89	15% to 21%	21
C14:1 Cetyl Myristoleate	AOCS Ce 1c-89	18% to 24%	21
C16:0 Cetyl Palmitate	AOCS Ce 1c-89	1% to 7%	1
C16:1 Palmitoleic Acid	AOCS Ce 1c-89	Report Only	2
C18:1 Oleic Acid	AOCS Ce 1c-89	Report Only	2
C18.2 Linoleic Acid	AOCS Ce 1c-89	Report Only	0.2
Others	AOCS Ce 1c-89	≤10%	2
Oil Content	AOCS Ce 1c-89	46% to 56%	52
Corn Starch	n/a	Report Only	46
Silicon Dioxide	n/a	Report Only	2
Moisture Content	AOCS Ba 2s-38	Report Only	4

PHYSICAL	METHOD	SPECIFICATION	RESULT ²
Taste	Organoleptic	Neutral	Neutral
Mesh Size	Various Mesh	100% 40 Mesh	100% 40 Mesh 99.2% 60 Mesh 87.2% 100 Mesh
Bulk Density	Physical	> 0.30 g/ml loose > 0.35 g/ml packed	0.32 g/ml loose 0.36 g/ml packed

¹ Storage: dry area, room temperature

² Analysis performed by SGS North America Inc. | 151 James Dr. West, St. Rose, LA 70087 | 01 504 469 6401

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MICROBIAL	METHOD	SPECIFICATION	RESULT ³
E. Coli	USP Chapter <62>	Not Detected per 10 g	Not Detected per 10 g
Salmonella	USP Chapter <62>	Not Detected per 10 g	Not Detected per 10 g
Total Aerobic Microbial Count	USP Chapter <61>	< 10 cfu/g	< 10 cfu/g
Staphylococcus aureus	USP Chapter <62>	Not Detected per 10 g	<Not Detected per 10 g
Yeast Count	USP Chapter <61>	< 10 CFU/g	< 10 cfu/g
Mold Count	USP Chapter <61>	< 10 CFU/g	< 10 cfu/g

METALS/MINERALS	METHOD Equipment	SPECIFICATION	RESULT ⁴
Arsenic	ICP	≤ 1.5 ppm	<0.1
Cadmium	ICP	≤ 0.5 ppm	<0.1
Calcium	ICP	Report	40.4
Chromium	ICP	Report	<0.1
Copper	ICP	Report	<0.1
Iron	ICP	Report	<0.1
Lead	ICP	≤ 0.5 ppm	<0.1
Magnesium	ICP	Report	5.7
Manganese	ICP	Report	<0.1
Mercury	ICP	≤ 3 ppm	<0.1
Molybdenum	ICP	Report	<0.1
Nickel	ICP	Report	<0.1
Phosphorous	ICP	Report	56.7
Selenium	ICP	Report	<0.1

³ Analysis performed by Eurofins Microbiology Laboratories | 2200 Rittenhouse Street Suite 175 | Des Moines, IA 50321 | +1 515 698 5025

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