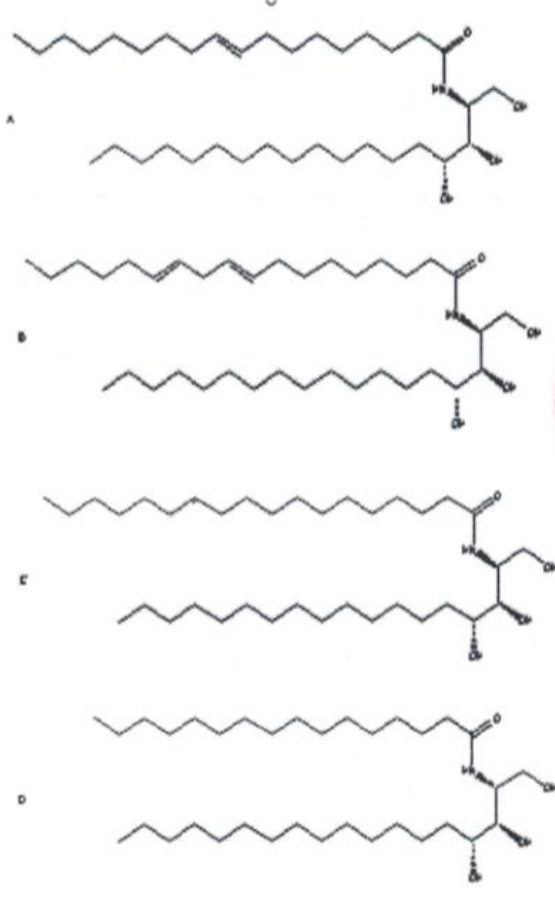


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**Certificate of Analysis**

<i>Name</i>		<i>Structure</i>
CERAMIDE NP (CERAMIDE IU-B, N-Oleoylphytosphingosine)		 <p>The image shows four chemical structures labeled A, B, C, and D, which are all representations of N-Oleoylphytosphingosine. Each structure consists of a long-chain fatty acid (oleoyl) linked to a sphingosine backbone. The oleoyl chain has a double bond at the 7th position. The sphingosine backbone has a hydroxyl group at the 1st position, an amino group at the 2nd position, and a hydroxyl group at the 3rd position. The structures are shown in a vertical column on the right side of the table.</p>
CAS	100403-19-8	
<i>Quantity</i>	6.5Kg	
<i>Batch number</i>	ZH26-NP1-20210815	
<i>R &amp; D MOA No</i>	QC-MOA-NPi-OI	
<i>Report date</i>	2021-08-13	
<i>Production date</i>	2021-08-10	
<i>Analytical Report</i>	NP-20210803	
<i>Retest date</i>	2023-08-09	
<i>Items</i>	<i>Specifications</i>	<i>Results</i>
<i>Appearance</i>	White to off-white powder	off-white powder
<i>Melting point</i>	98-108 °C	101-103 °C
<i>Identification</i>	HPLC Conforms	Conforms
<i>Loss of drying</i>	NMT 2.0% W2.0%	0.04%
<i>Heavy metals</i>	NMT 20ppm W20ppm	<20ppm
<i>Residue on ignition</i>	NMT 0.5% W0.5%	0.06%
<i>Total aerobic bacteria</i>	Not more than 100CFU/g W100CFU/g	Conforms
<i>Yeast &amp; Mold</i>	Not more than 10CFU/g W10CFU/g	Conforms

<b>Residual Solvents</b>	Methol	NMT3000ppm W3000ppm	<3000ppm
	Ethol	NMT5000ppm W5000ppm	<5000ppm
	Ethylis oleas	NMT3000ppm W3000ppm	<3000ppm
<b>Purity</b>	A:NLT85.0%		86.8%
	A+B+C+D: NLT 95%		95.4%
<b>Assay(HPLC-UV)</b>	NLT 95.0%(A+B+C+D) ≥95.0% (A+B+C+D)		95.4%
<b>Conclusion</b>	The results conform to enterprise standard		
<b>Storage</b>	Preserve in tightly closed container at room temperature, avoid direct sunlight.		

**Conclusion: Complies with specification.Non GMO,Non Irradiation, Allergen Free**

Inspector : LIYU

Quality Manager: Xu Ping

