

Technical Data Sheet

Mixed-type Sophorolipids 惠丽德® SLM 1140

30.11.2023

Product Description

Sophorolipid biosurfactant with mixed type structure produced from vegetable oil and sugar by fermentation process.

Typical Properties

<i>Property</i>	<i>Value</i>	<i>Unit</i>	<i>Method</i>
<i>Appearance</i>	Light yellow to dark brown liquid	-	Q/DGBIO 1-2023
<i>Sophorolipid content</i>	≥350	g/L	
<i>pH(10% aqueous solution)</i>	2.5-5.5	-	
<i>ST(10⁻³)</i>	≤45	mN/m	

Applications

A biosurfactant with excellent surface properties, which has the functions of reducing surface tension, emulsifying, wetting, decontamination, and bacteriostasis etc. It can be used in oil exploration, pollution control, soil remediation, agriculture, fodder and other related fields.

Instruction for use

Cautions	<p>pH: Do not use with strong bases, especially when pH>10. Recommended pH: 5.5-7.5.</p> <p>Temperature: The product has been tested to maintain stable structure and performance at a maximum of 150°C, and solidification can occur at <0°C. Recommended temperature: 10-80°C.</p>
Dissolvability	<p>It can be diluted and dissolved in most organic solvents such as alcohols, esters. The low concentration can be diluted and dissolved with water, and the pH need to be adjusted to about 7 when the high concentration is dissolved in water.</p>
Bacteriostatic and antiseptic	<p>Although the sophorolipid products have antibacterial properties, it is still recommended to use it as soon as possible after the package is opened. If not used, it should be sealed immediately and stored in a cool, dry and ventilated warehouse, and can be refrigerated if necessary (do not</p>

	<p>freeze).</p> <p>Products that have been opened, changed packaging, or stored improperly may shorten guarantee period, please use them as soon as possible.</p> <p>If preservative treatment is required in the formulation system of this product, or your industry has requirements on hygiene indicators. Preservatives can be added or sterilization methods such as high temperature and radiation can be used during the use of this product. Before use, it is recommended to do compatibility test and anti-corrosion challenge test.</p>
Packaging	Plastic drums with a net weight of 25kg, recyclable IBC ton drums.
Storage	Sealed storage in a cool warehouse, it can be stored for two years from the date of manufacture. Under the conditions of large temperature difference between day and night, phase separation may occur during the storage process, which will not affect the performance of the product. Please shake well before use.
Transportation	Transport as non-dangerous goods, avoid exposure to sunlight during transportation.

For more information, please contact us.

Statement

The descriptions of technology specifications, product performance and precautions contained in this document are based on our current knowledge and experience. The data are obtained by professional technicians under qualified test conditions. Due to equipment, environment, personnel and other reasons, the actual test conclusion may have errors. We reserve the right to make any changes to the above based on technological advances.