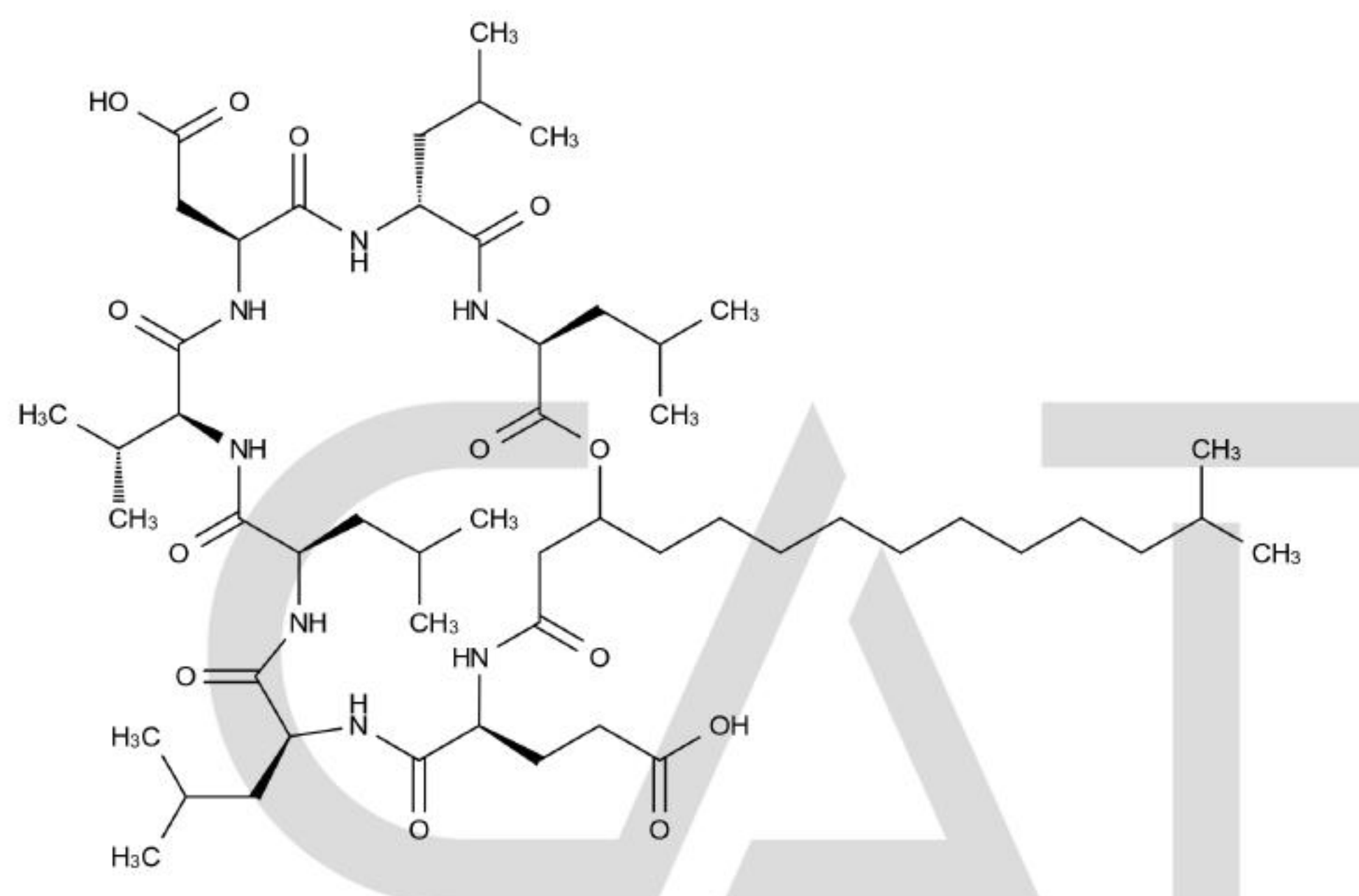


Certificate of Analysis

Reference Material & Standard

Product Name:	Surfactin	Catalogue Number:	CCAD302757
Synonyms:	N/A	Lot Number:	0521-RH-0070
CAS Number:	24730-31-2	Expiry Date:	Oct 08, 2027
Molecular Formula:	C ₅₃ H ₉₃ N ₇ O ₁₃	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	1036.34	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	HNMR	Confirmed
Purity	ELSD	99.4%
Uncertainty		±0.1%

Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: May 22, 2026

Date: May 22, 2026

Date: May 22, 2026



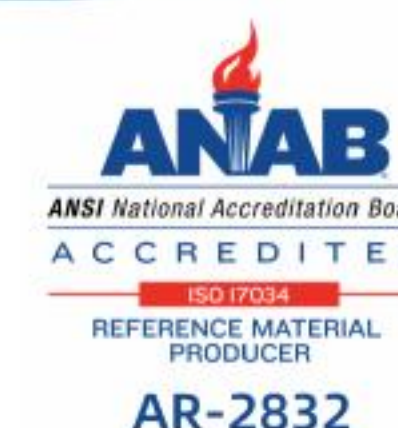
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