

Certificate of Analysis

Product Name	LLO (91-99) (Listeriolysin O (91-99))
Catalog No.	V53012
Batch No.	V5301201

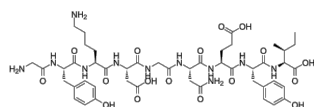
1. Physical and Chemical Properties

Appearance	powder
Molecular Formula	C ₄₇ H ₆₇ N ₁₁ O ₁₇
Molecular Weight	1058.10
Purity	=99.04%
CAS No.	137856-41-8
Production Date	2024-01-10

2. Analytical Data

HPLC	Indicates =99.04% purity
NMR.	Consistent with structure
Mass Spectrum	Consistent with structure

3. Structure



4. Storage Condition

Storage Condition	Powder -20°C 3 years
	4°C 2 years
	In solvent -80°C 6 months
	-20°C 1 month
Note: Please store this product in a sealed and protected environment (e.g. under nitrogen), avoid exposure to moisture and light.	

Products are for research use only • Not for human or veterinary use