

Certificate of Analysis

Product Name : Melittin (Research Use Only) **Batch No. :** MT2601
Molecular Formula : C₁₃₁H₂₂₉N₃₉O₃₁ (M.W. 2846.46) **CAS No. :** 37231-28-0
Manufacturing Date : 2026. 03. 10. **Expiry Date :** 2027. 03. 09.
Peptide Sequence : H-Gly-Ile-Gly-Ala-Val-Leu-Lys-Val-Leu-Thr-Thr-Gly-Leu-Pro-Ala-Leu-Ile-Ser-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-NH₂

Test Items	Specification	Results
Appearance	White to off-white powder	White powder
Solubility	Freely soluble in water and 0.1% acetic acid	Conforms
Identification		
Mass Spectrometry	2844.8 ± 1.0 (Monoisotopic mass)	2844.8
Peptide Sequencing	Sequence consistent with theoretical structure	Confirmed
Amino Acid Analysis	Glx : 1.6 ~ 2.4 Ala : 1.6 ~ 2.4 Ser : 0.6 ~ 1.4 Val : 1.6 ~ 2.4 Thr : 1.6 ~ 2.4 Ile : 2.4 ~ 3.6 Arg : 1.6 ~ 2.4 Leu : 3.2 ~ 4.8 Pro : 0.6 ~ 1.4 Lys : 2.4 ~ 3.6 Gly : 2.4 ~ 3.6 Trp : Present	Glx : 1.9 Ala : 1.9 Ser : 0.8 Val : 1.9 Thr : 1.8 Ile : 2.8 Arg : 1.9 Leu : 3.7 Pro : 1.3 Lys : 2.8 Gly : 2.8 Trp : Present
Purity	Not less than 99.0%	99.5%

Storage conditions: Store in a tightly closed container at -20°C or below. Protected from light.

Lab Manager
 Reviewed by / Date 김민정 / 2026. 05. 07
QA Manager
 Reviewed by / Date 이태희 / 2026. 05. 08
Director
 Approved by / Date 박동하 / 2026. 05. 08