

Analytical Data Sheet

Lot number **1000005162**
not for drug use

Catalog number **G-1055.0005**
Product number **4009623.0005**
Product **Ac- muramyl- Ala- D- Glu- NH₂**
Molecular formula **C₁₉H₃₂N₄O₁₁**
Relative molecular mass **492.48**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50mg/ml in H ₂ O)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = +36.0^\circ$ (0.5 % H ₂ O)
Purity (HPLC)	99.2% NaClO ₄
Purity (TLC)	> 99%
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H ₂ O 6/5/1/3 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	95.7% (Nth 11.38 %, Nfd 10.89 %)
Water content (KF volumetric)	2.8%

Latest update: August 27, 2018

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