

Chem-Impex International, Inc.

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Certificate of Analysis

Catalogue Number	09558
Product	<i>N</i>-Acetylmuramic acid
Lot Number	000127-1042128 (<i>R</i>)-2-(Acetylamino)-3- <i>O</i> -(1-carboxyethyl)-2-deoxy-D-glucose
CAS Number	10597-89-4
Molecular Formula	C ₁₁ H ₁₉ NO ₈
Molecular Weight	293.27

Appearance	White powder
Solubility	Clear, colorless solution (50 mg/mL in Methanol)
Melting Point	128 °C
Elemental Analysis (Theory)	C = 44.1%, H = 7.2%, N = 4.2% Calculated as x 0.04 Water (0.2%) x 1.2 Methanol (11.6%)
Elemental Analysis (Found)	C = 44.0%, H = 7.1%, N = 4.2% Calculated as x 0.04 Water (0.2%) x 1.2 Methanol (11.6%)
Water Content (Karl Fisher)	0.2%
TLC System	n-butanol/ acetic acid/ H ₂ O: (4:2:2) Chloroform/ methanol/ acetic acid 32%: (5:3:1) Chloroform/ methanol/ acetic acid/ H ₂ O: (60:45:14:6) Plate: Silicagel 60 F ₂₅₄ Detected by: UV, Ninhydrin, Chlorine-tolidine
Residual Solvents	Methanol: 11.8% n-butanol: < 0.1% Ether: < 0.1% Isopropanol: 0.1%
Assay by titration	88.5% (TBAH)
Purity by TLC	> 98.0%
Storage	Store at 0-8 °C

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Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

Bala Kumar
Quality Control Manager