



INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: www.indofinechemical.com

e-mail: chemical@indofinechemical.com

Certificate of Analysis

Catalog Number	04-078
Product Name	N-Acetylmuramic acid
Lot Number	1015474
Molecular Formula	C ₁₁ H ₁₉ NO ₇
Molecular Weight	277.27
Appearance	White powder.
Melting Point	128 °C
Solubility	Clear, colorless solution (50 mg/mL in methanol)
Identification (ESI-MS)	m = 293.2u (average mass)
Identification (TLC)	Complies with authentic material
Assay (TLC)	> 98%
n-Butanol/acetic acid/H₂O 4/2/2	Detected by: UV, Ninhydrin, Chlorine-Tolidine, Ammonium molybdate
Chloroform/methanol/acetic acid 32% 5/3/1	
Chloroform/methanol/acetic acid/H₂O 60/45/14/6	
Plate: Silicagel 60 F₂₅₄	
Assay (elemental analysis)	98.2% (Cth 45.05%, Cfd 44.23%)
Water content (KF volumetric)	0.3%
Storage	Store at -0°C