



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

Catalogue Number 024165
Lot Number 001855-11-122
Product **Lactobionic acid**

4-O- β -D-Galactopyranosyl-D-gluconic acid

CAS Number 96-82-2
Molecular Formula $C_{12}H_{22}O_{12}$
Molecular Weight 358.29

Appearance	White crystalline powder
Appearance of Solution	The solution is clear and not more intensely colored than the reference solution
Solubility	Freely soluble in water, slightly soluble in glacial acetic acid, anhydrous ethanol and in methanol.
Heavy Metals	< 10 ppm
Trace Metal Analysis	Arsenic (As) = < 2 ppm; Iron (Fe) = < 60 ppm; Silicates (Si) = < 50 ppm; Calcium (Ca) = < 500 ppm;
Anion	Chloride (Cl ⁻) = < 200 ppm; Sulfate (SO ₄ ²⁻) = < 100 ppm
Water Content (Karl Fisher)	3.8%
pH	2.6
Optical Rotation	+25.0°
Infrared Spectrum	Conforms to standard
Reducing Sugars	0.06%
E. Coli	Negative
Endotoxin Test	10 Eu/g
Pseudomonas Aeruginosa	Negative
Salmonella	Negative
Ash	0.04%
Assay	98.8%
Purity by TLC	Conforms with the standard
Storage	Store at 0-8 °C