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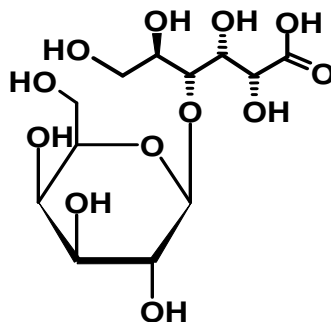
Product Specifications

Lactobionic Acid

CAS 96-82-2

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

Structure:



Mol. Formula

$C_{12}H_{22}O_{12}$

Mol. Wt.

358.29

Source

Semi-synthetic (derived from animal-free, vegetal components)

Grade

EP 5.0

Test

Specification

Identity [EP]	IR, TLC
Appearance	White microcryst. solid
Solubility [EP]	Freely soluble in water
Clarity [EP (2.2.1)]	A 1% aqueous solution is clear, colorless
Assay [EP]	98%-102%
Sp. Rot., $[\alpha]_D$ [EP (2.2.7)]	+23.0° - +29.0° (H ₂ O)
Water [EP (2.5.12)]	< 5%
pH	1.0 – 3.0
Reducing Sugars [EP]	< 0.2% Max

- cont'd -

- cont'd -

<i>Test</i>	<i>Specification</i>
Total Ash [EP (2.4.16)]	≤ 0.1%
Calcium	< 500 ppm
Chloride	< 500 ppm
Sulfate	< 500 ppm
Silicates	< 200 ppm
Heavy metals [EP 2.4.8]	< 10 ppm
	< 2 ppm (As)
Endotoxin Level	10 EU/g
<u>Microbiological Specification</u>	
Total Aerobic (CFU/g)	<100 organisms/g
<i>E. Coli</i>	negative
<i>Salmonella</i>	negative
<i>Pseudomonas aeruginosa</i>	negative
Mold & Yeast (CFU/g)	<10 organisms/g

Storage: Maintain in cool, dry, dark containment.