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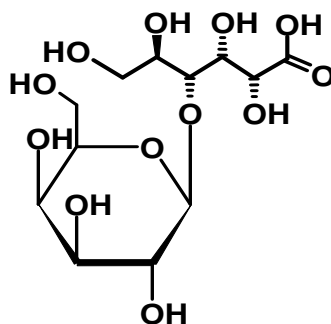
## Product Specifications

### Lactobionic Acid (tested to EP 7.0)

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

cGMP

<i>Test</i>	<i>Specification</i>	<i>Results</i>
Identity A [EP (2.2.24)]	IR	Conforms
Identity B [EP (2.2.27)]	TLC	Conforms
Appearance	White microcryst. solid	Conforms
Solubility [EP]	Freely soluble in water, slightly soluble in glacial Acetic Acid, in anhydrous Ethanol and in Methanol	Conforms
Clarity [EP]	The solution is clear (2.2.1) and not more intensely colored than reference solution Y <sub>5</sub> (2.2.2, Method II)	Conforms
Assay [EP (2.2.20)]	98%-102%	100.3%
Sp. Rot., [α] <sub>D</sub> [EP (2.2.7)]	+23.0° - +29.0° (H <sub>2</sub> O)	+26.4°
Water [EP (2.5.12)]	< 5%	3.8%
pH	1.0 – 3.0	2.4
Reducing Sugars [EP]	≤ 0.2%	< 0.2%

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<i>Test</i>	<i>Specification</i>	<i>Results</i>
<b>Total Ash</b> [EP (2.4.16)]	≤ 0.2%	0.08%
<b>Calcium</b>	≤ 500 ppm	< 500 ppm
<b>Chloride</b>	≤ 500 ppm	< 500 ppm
<b>Sulfate</b>	≤ 500 ppm	< 500 ppm
<b>Heavy metals</b> [EP 2.4.8)]	≤ 20 ppm	< 10 ppm
<b>Endotoxin Level</b>	< 10 EU/g	Conforms
<b><u>Microbiological Specification</u></b>		
Total Aerobic (CFU/g)	<100 organisms/g	Conforms
<i>E. Coli</i>	negative	Conforms
<i>Salmonella</i>	negative	Conforms
<i>Pseudomonas aeruginosa</i>	negative	Conforms
Mold & Yeast (CFU/g)	<10 organisms/g	Conforms

**Storage:** Maintain in cool, dry, dark containment.