



## Certificate of Analysis

### Lactobionic Acid

**Catalog Number:** LA1011  
**Lot Number:** 0205002  
**CAS Number:** 96-82-2  
**Molecular Formula:**  $C_{12}H_{22}O_{12}$   
**Molecular Weight:** 358.30  
**Storage:** 15°C – 30°C  
**Date of Manufacture:** January 30, 2020  
**Retest Date:** December 29, 2024

Test	Specification	Result
Appearance	White powder	Conforms
Assay	≥ 98.0%	99.36%
Identification A (FTIR) <sup>1</sup>	To match reference spectra	Conforms
Identification B (TLC) <sup>1</sup>	To meet requirements	Conforms
Solubility	Freely soluble in water, slightly soluble in glacial acetic acid, in anhydrous ethanol and in methanol.	Conforms
Specific Rotation <sup>1</sup>	+23.0° to + 29.0°	Conforms
Melting Point	~ 125°C	Conforms
Appearance of Solution <sup>2</sup>	Clear and colorless	Conforms
Moisture (LOD) <sup>1</sup>	≤ 5.0%	< 5.0%
Total Ash	≤ 0.2%	< 0.2%
Reducing Sugars (as Glucose)	≤ 0.2%	< 0.2%

Approved by:

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Date: February 6, 2020