

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	Lactobionic Acid
<b>Product Code</b>	AL00074
<b>INCI Name</b>	Lactobionic Acid
<b>CAS Number</b>	96-82-2
<b>Lot Number</b>	20230929
<b>Manufacture Date</b>	09/2023
<b>Re-test Date</b>	09/2025

Items	Specification	Results
<b>Appearance</b>	White/ almost white crystalline powder	White crystalline powder
<b>Identification</b>	- By IR: Positive - By TLC: Positive	Conforms
<b>Specific optical rotation</b>	+23° ~ +29°	+24.0°
<b>Solubility</b>	Freely soluble in water, slightly soluble in glacial acetic acid, anhydrous ethanol and in methanol	Freely soluble in water, slightly soluble in glacial acetic acid, anhydrous ethanol and in methanol
<b>Appearance solution</b>	The solution is clear & not more intensely coloured than reference solution	The solution is clear & not more intensely coloured than reference solution
<b>pH (10%)</b>	1.0 - 3.0	2.3
<b>Calcium</b>	≤ 500ppm	< 500ppm
<b>Chloride</b>	≤ 500ppm	< 500ppm
<b>Sulfate</b>	≤ 500ppm	< 500ppm
<b>Iron</b>	≤ 100ppm	< 100ppm
<b>Reducing sugars</b>	≤ 0.2%	< 0.2%
<b>Water Content</b>	≤ 5.0%	1.2%
<b>Assay</b>	98.0% - 102.0%	100.1%
<b>Total Ash</b>	≤ 0.1%	0.06%

**Disclaimer:** The details provided here are specific to the identified material and may not remain accurate if that material is combined with other substances or used in different processes. The information presented is, to the best of the company's knowledge, considered precise and trustworthy as of the date mentioned. However, the company does not make any explicit or implied assurance, guarantee, or claim regarding the information's precision, trustworthiness, or comprehensiveness, and will not be held accountable for any losses, damages, or costs, whether direct or indirect, that arise from its use. Users are encouraged to independently verify the appropriateness and thoroughness of this information for their specific purposes.

Endotoxin Level	≤ 10 EU/g	Complies
Lead	≤ 10 mg/kg	< 10 mg/kg
Arsenic	≤ 2 mg/kg	< 2 mg/kg
Mercury	≤ 1 mg/kg	< 1 mg/kg
Cadmium	≤ 5 mg/kg	< 5 mg/kg
Total plate count	≤ 1000 cfu/g	< 10 cfu/g
Yeast & mould	≤ 100 cfu/g	< 10 cfu/g
Salmonella	Negative	Negative
E.coli	Negative	Negative
Pseudomonas	Negative	Negative

#### STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight.  
 When stored for a period longer than the one specified above, quality should be checked before use.

**As it is electronically generated document, hence no signature required**