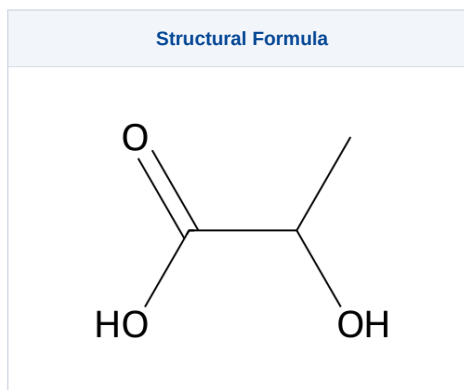


CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

Product Name	Lactic Acid 80% Food Grade
C.A.S. Number	50-21-5
Molecular Formula	C ₃ H ₆ O ₃
Molecular Weight	90.08
Grade / Standard	80% Food Grade
Physical Form	Clear colorless to pale liquid
Product Category	Acids & Alkalis
Country of Origin	India



ANALYTICAL RESULTS

S. No.	Test Parameter	Specification	Result	Method
1	Description	Clear colorless to pale liquid	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Assay	Not less than 80.0 % w/w	81.21	Titrimetry / Instrumental
4	Specific Gravity at 25 °C	As per specification	Conforms	Hydrometry / ASTM D4052
5	Colour (APHA)	Not more than 30	4	ASTM D1209
6	Chloride (as Cl)	Not more than 0.01 % w/w	0.0030	Turbidimetry / IC
7	Sulphate (as SO ₄)	Not more than 0.02 % w/w	0.0029	Turbidimetry / IC
8	Iron (as Fe)	Not more than 20 ppm	2.7 ppm	ICP-OES / AAS
9	Heavy Metals (as Pb)	Not more than 10 ppm	Less than 5 ppm	ICP-OES
10	Total Aerobic Microbial Count	Not more than 1000 cfu/g	98 cfu/g	IP / USP <61>
11	Total Yeast & Mould Count	Not more than 100 cfu/g	10 cfu/g	IP / USP <61>
12	Escherichia coli	Absent in 1 g	Absent	IP / USP <62>
13	Salmonella species	Absent in 10 g	Absent	IP / USP <62>
14	Structure	Conforms to reference structure	Complies	FTIR / NMR

Remarks

Material supplied against this specification is analysed on every production lot and **conforms** to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade.

Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.

Checked and Approved by

Prem Panchal
Quality Assurance
Scapex Exports Pvt. Ltd.

This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by ScapeX Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.