

Specification

Technical Data Sheet

CAS 50-21-5	STORAGE Ambient	MOLECULAR WEIGHT 90.08
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PRODUCT**DL-Lactic acid EP Grade**

Product number	90037668
CAS number	50-21-5
Molecular formula	CH ₃ CH(OH)COOH
Molecular weight	90.08 g/mol

PARAMETER	SPECIFICATION
Appearance	A colourless or slightly yellow, viscous liquid, almost odourless; hygroscopic.
Heavy metals	≤10ppm
Identification	A.) Warm 1g with 0.1g of potassium permanganate; acetaldehyde is evolved. B.) Gives reaction A of lactates. C.) A 10 per cent w/v solution is strongly acidic.
Refractive Index	1.426 - 1.436
Appearance of Solution	The substance under examination is not more intensely coloured than reference solution YS6
Assay (Titration)	89.0% - 91.0%
Bacterial endotoxins	≤5IU/g
Ether-insoluble substances	The solution is not more opalescent than the solvent used for the test
Methanol	≤50ppm
Optical Rotation	-0.05° and +0.05°
Reducing Sugar	≤1.0%
Solubility	Miscible in all proportions with water, with ethanol 95% and with Ether.
Specific gravity (25 °C)	1.172 - 1.210

PARAMETER	SPECIFICATION
Sulphated Ash	≤0.1%
Total Aerobic Count	≤1000ufc/ml
Total aerobic count (Fungal & yeast)	≤100ufc/ml
Calcium (Ca)	≤200ppm
Citric, Oxalic and Phosphoric acids	Both before and after heating, any opalescence in the solution is not more intense than that in a mixture of 5ml of the test solution and 1ml of water.
E. Coli	Absent in 1 ML
p.aeruginosa	Absent in 1 ML
Staphylococcus Aureus	Absent in 1 ML
Sulphates (SO₄)(2-)	≤200ppm

SPECIFICATION STATEMENT	The values stated above represent the standard specification for this product, issued under Molekula Ltd 's quality management system. Batch-specific results are provided on the Certificate of Analysis.
STORAGE	Store as indicated on the product label, away from light, moisture and incompatible materials.

Molekula Ltd would like to thank you for your support of our products and service.

Reg No 6879903 VAT GB 744 9721 05