



DALIAN HANDOM CHEMICALS CO.,LTD.

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Certificate of Analysis

Product Name: L-lactic Acid

Manufacturing Date: Feb 1st, 2023

Quantity: 20,000kg

Report Date: Feb 2nd, 2023

Batch No.: HDC20230201

Retest Date: Jan 31st, 2025

Packing: 25kg/drum

Standard: GB 1886.173-2016

Test Items	Specifications	Test Results
Colour	Colourless to light yellow	Light colourless
State	Transparent liquid	Transparent liquid
Smell	No irritation, no odour	No odour
Content	Not less than 80.0%	80.33%
Stereochemical purity (L-isomer)	Not less than 97.0%	99.15%
Chroma(Fresh solution)	70APHA ~ 100APHA	80APHA
Chloride	Not more than 20 ppm	<20 ppm
Sulphate	Not more than 50 ppm	<50 ppm
Iron	Not more than 10 ppm	<10 ppm
Cyanide	Not more than 1 ppm	<1 ppm
Citric, oxalic, phosphoric and tartaric acid	Both before and after heating, any opalescence in the solution is not more intensethan that in a mixture of 1mL of water R and 5mL of solution S.	Conforms
Reducing sugars	No red or greenish precipitate is formed	Conforms
Sulphated ash	Not more than 0.1%	<0.1%
Lead(Pb)	Not more than 2.0 ppm	<2 ppm
Arsenic(As)	Not more than 1.0 ppm	<1 ppm

CONCLUSION: This product was tested according to the standard of GB 1886.173-2016 and customers' requirements, and the testing results comply with the specifications.