

Shanghai yuanye Bio-Technology Co., Ltd
465 Changta Road, SongJiang District, Shanghai 201604, China

Certificate of Analysis

Date of Testing: 2024-11-06 14:36:34
Date of Next Testing: 2028-11-05 14:36:34
Product Name: **L(+)-Tartaric acid**
CAS Number: 87-69-4
Specifications & Purity: Pharmaceutical grade
Lot #: K2401157
SKU #: **S52579**
Version: **0**
Analysis #: **432782**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Chloride (Cl-)	0-100 (ppm)	99.82 ppm
Mercury(Hg)	0-1 (ppm)	0.09 ppm
(Pb)Lead	0-2 (ppm)	0.18 ppm
Copper(Cu)	0-10 (ppm)	5.83 ppm
Specific Rotation [α] ₂₅ /D(c=20 in H ₂ O)	12-13 (°)	12.00 °
Heavy metal (as Pb)	0-0.001 (%)	0.00 %
Ignition Residue (as sulfate)	0-0.05 (%)	0.00 %
(As)Arsenic	0-2 (ppm)	1.94 ppm
Zinc(Zn)	0-10 (ppm)	9.83 ppm
Loss on drying	0-0.2 (%)	0.19 %
Sulfate(SO ₄ ²⁻)	0-100 (ppm)	99.30 ppm
Calcium(Ca)	0-200 (ppm)	103.52 ppm
oxalate (as oxalic acid)	0-100 (ppm)	97.48 ppm
Purity (dry basis)	99.7-100.5 (%)	99.73000 %
Infrared spectrum	Conforms to Structure	Conforms to Structure
oxalate (C ₂ O ₄ ²⁻)	pass	Pass
Residual solvents	complies	complies
volatile organic substances	pass	Pass
Appearance(S52579)	white powder	White powder

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Quality Assurance : Xiaoyong Tan

Quality Control : Yunfei Zou

