

Certificate of Analysis

Product Name: L-ASPARTIC ACID POTASSIUM SALT
puriss. p.a., >= 99.0 % anhydrous basis

Product Number: 11230

Batch Number: BCBQ8726V

Brand: Sigma-Aldrich

CAS Number: 1115-63-5

Formula: HO₂CCH₂CH(NH₂)CO₂K

Formula Weight: 171.19

Quality Release Date: 09 OCT 2015

Recommended Retest Date: AUG 2021

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	COLORLESS OR WHITE	WHITE
APPEARANCE (FORM)	POWDER	POWDER
TITRATION (NT) HClO ₄ 0.1M	99.0 - 101.5 % (ANHYDROUS BASIS)	99.1 % (ANHYDROUS BASIS)
PURITY (TLC AREA %)	≥ 99.0 %	100 %
SPECIFIC ROTATION (20/D)	-13.5 ± 1.0 DEGREES	-14.0 DEGREES
CONCENTRATION	C=1 IN WATER	C=1 IN WATER
SOLUBILITY (COLOR)	COLORLESS	COLORLESS
SOLUBILITY (TURBIDITY)	CLEAR	CLEAR
SOLUBILITY (METHOD)	1G IN 10ML WATER	1G IN 10 ML WATER
WATER	≤ 6 %	3.3 %
INFRARED SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS
METAL TRACE ANALYSIS (ICP)	CORRESPONDS TO REQUIREMENTS	PASSED
CALCIUM (ICP)	≤ 50 MG/KG	< 50 MG/KG
CADMIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG
COBALT (ICP)	≤ 5 MG/KG	< 5 MG/KG
CHROMIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG
COPPER (ICP)	≤ 5 MG/KG	< 5 MG/KG
IRON (ICP)	≤ 10 MG/KG	< 10 MG/KG
MAGNESIUM (ICP)	≤ 50 MG/KG	< 50 MG/KG
MANGANESE (ICP)	≤ 5 MG/KG	< 5 MG/KG
NICKEL (ICP)	≤ 5 MG/KG	< 5 MG/KG
LEAD (ICP)	≤ 5 MG/KG	< 5 MG/KG
ZINC (ICP)	≤ 5 MG/KG	< 5 MG/KG

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TOTAL SULFUR AS SO₄ (ICP)	≤ 500 MG/KG	< 500 MG/KG
CHLORIDE (CL)	≤ 50 MG/KG	< 50 MG/KG
ION CHROMATOGRAPHY (NH₄⁺)	≤ 200 MG/KG	< 200 MG/KG



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Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.