

Certificate of Analysis

Product Name: L-4-HYDROXYPROLINE
BioChemika

Product Number: 99982

Batch Number: BCBL4514V

Brand: Fluka

CAS Number:

Formula:

Formula Weight:

Quality Release Date: 02 JUL 2013

Recommended Retest Date: JUN 2017

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	COLORLESS OR WHITE	WHITE
APPEARANCE (FORM)	POWDER OR CRYSTALS	CRYSTALS
TITRATION (NT) HClO ₄ 0.1M	99.0 - 101.0 %	100.2 %
PURITY (TLC AREA %)	≥ 99.7 %	100.0 %
SPECIFIC ROTATION (20/D)	-76.0 ± 1.5 DEGREES	-75.9 DEGREES
CONCENTRATION	C=5 IN WATER	C=5 IN WATER
SOLUBILITY (COLOR)	COLORLESS	COLORLESS
SOLUBILITY (TURBIDITY)	CLEAR (< 3.5 NTU)	CLEAR
SOLUBILITY (METHOD)	1G IN 10ML WATER	1G IN 10ML WATER
LOSS ON DRYING	≤ 0.1 %	<0.05%
SULFATED ASH	≤ 0.1 %	<0.05%
INFRARED SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS
METAL TRACE ANALYSIS (ICP)	CORRESPONDS TO REQUIREMENTS	PASSED
CALCIUM (ICP)	≤ 10 MG/KG	< 10 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)	≤ 5 MG/KG	< 5 MG/KG
POTASSIUM (ICP)	≤ 50 MG/KG	< 50 MG/KG
MAGNESIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG
MANGANESE (ICP)	≤ 5 MG/KG	< 5 MG/KG
SODIUM (ICP)	≤ 50 MG/KG	< 50 MG/KG
NICKEL (ICP)	≤ 5 MG/KG	< 5 MG/KG
LEAD (ICP)	≤ 5 MG/KG	< 5 MG/KG

Certificate of Analysis

ZINC (ICP)	≤ 5 MG/KG	< 5 MG/KG
TOTAL SULFUR AS SO₄ (ICP)	≤ 100 MG/KG	< 100 MG/KG
AMMONIUM (NH₄⁺)	≤ 100 MG/KG	< 50MG/KG
CHLORIDE (CL)	≤ 100 MG/KG	< 25MG/KG



Dr. Claudia Geitner
Manager Quality Control
Buchs, Switzerland

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.