

Certificate of Analysis

Product Name: L-4-HYDROXYPROLINE
BioChemika

Product Number: 99982

Product Brand: Fluka

Molecular Formula:

Molecular Mass:

CAS Number:

TEST	SPECIFICATION	LOT BCBF9781V RESULTS
APPEARANCE (COLOR)	COLORLESS OR WHITE	WHITE
APPEARANCE (FORM)	POWDER OR CRYSTALS	CRYSTALS
TITRATION (NT) HClO ₄ 0.1M	99.0 - 101.0 %	99.8 %
PURITY (TLC AREA %)	≥ 99.7 %	100.0 %
SPECIFIC ROTATION (20/D)	-76.0 ± 1.5 DEGREES	-75.9 DEGREES
CONCENTRATION	--	C=5 IN H ₂ O
SOLUBILITY (COLOR)	COLORLESS	COLORLESS
SOLUBILITY (TURBIDITY)	CLEAR (< 3.5 NTU)	CLEAR (< 3.5 NTU)
SOLUBILITY (METHOD)	--	1G IN 10 ML H ₂ O
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

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ZINC (ICP)	≤ 5 MG/KG	< 5 MG/KG
TOTAL SULFUR AS SO ₄ (ICP)	≤ 100 MG/KG	< 100 MG/KG
AMMONIUM (NH ₄ ⁺)	≤ 100 MG/KG	< 50 MG/KG
CHLORIDE (CL)	≤ 100 MG/KG	< 25 MG/KG

QC RELEASE DATE 17/JUN/11
RECOMMENDED RETEST DATE MAY/15



Edeltraud Schwärzler, Manager
Quality Control
Buchs, Switzerland

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