

Certificate of Analysis

Product Name: SARCOSINE
BioUltra
Product Number: 99984
Product Brand: Fluka
Molecular Formula: C₃H₇NO₂
Molecular Mass: 89.09
CAS Number: 107-97-1

TEST	SPECIFICATION	LOT BCBF4309V RESULTS
APPEARANCE (COLOR)	WHITE/COLORLESS	WHITE
APPEARANCE (FORM)	POWDER TO FINE CRYSTALS WITH LUMPS	FINE CRYSTALS
TITRATION (NT) HClO ₄ 0.1M	99.0 - 101.0 %	99.7 %
LOSS ON DRYING	≤ 0.1 %	0.1 %
RESIDUE ON IGNITION	≤ 0.05 %	< 0.05 %
METAL TRACE ANALYSIS (ICP)	CORRESPONDS TO REQUIREMENTS	PASSED
ALUMINIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG
BARIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG
BISMUTH (ICP)	≤ 5 MG/KG	< 5 MG/KG
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
LITHIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG
MAGNESIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG
MANGANESE (ICP)	≤ 5 MG/KG	< 5 MG/KG
MOLYBDENUM (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
STRONTIUM (ICP)	≤ 5 MG/KG	< 5 MG/KG

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ZINC (ICP)	≤ 5 MG/KG	< 5 MG/KG
ARSENIC TRACES (MHS-AAS)	≤ 0.1 MG/KG	< 0.05 MG/KG
TOTAL SULFUR AS SO ₄ (ICP)	≤ 50 MG/KG	< 50 MG/KG
CHLORIDE (CL)	≤ 50 MG/KG	< 50 MG/KG
SOLUBILITY (METHOD)	--	2.673 G IN 30 ML H ₂ O (1 M)
APPEARANCE (SOLUTION)	CLEAR COLORLESS	CLEAR COLORLESS
PH	6.0 - 7.0	6.4
RESIDUE (FILTER TEST)	NO RESIDUE	NO RESIDUE
UV - ABS. AT 260 NM	≤ 0.05	0.047
UV - ABS. AT 280 NM	≤ 0.04	0.038

QC RELEASE DATE 21/MAR/11
RECOMMENDED RETEST DATE FEB/15



Edeltraud Schwärzler, Manager
Quality Control
Buchs, Switzerland

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