

**SIGMA-ALDRICH®**
 Industriestrasse 25, CH-9471 Buchs (SG), Switzerland  
 Tel: +41 81 755 2511 Fax: +41 81 756 5449

## Certificate of Analysis

**Product Name:** SARCOSINE  
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**Product Number:** 99984  
**Product Brand:** Fluka  
**Molecular Formula:** C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub>  
**Molecular Mass:** 89.09  
**CAS Number:** 107-97-1

TEST	SPECIFICATION	LOT 1302589 RESULTS
<b>APPEARANCE (COLOR)</b>	WHITE/COLORLESS	WHITE
<b>APPEARANCE (FORM)</b>	POWDER TO FINE CRYSTALS WITH LUMPS	FINE CRYSTALS WITH LUMPS
<b>TITRATION (NT) HCLO4 0.1M</b>	≥ 99.0 %	99.7 %
<b>LOSS ON DRYING</b>	≤0.1 %	0.1 %
<b>RESIDUE ON IGNITION</b>	≤ 0.05 %	< 0.05%
<b>INFRARED SPECTRUM</b>	CORRESPONDS TO STANDARD SPECTRUM	CORRESPONDS
<b>METAL TRACE ANALYSIS (ICP)</b>	CORRESPONDS TO REQUIREMENTS	PASSED
<b>ALUMINIUM (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>BARIUM (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>BISMUTH (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>CALCIUM (ICP)</b>	≤ 10 MG/KG	< 10 MG/KG
<b>CADMIUM (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>COBALT (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>CHROMIUM (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>COPPER (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>IRON (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>POTASSIUM (ICP)</b>	≤ 50 MG/KG	< 50 MG/KG
<b>LITHIUM (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>MAGNESIUM (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>MANGANESE (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>MOLYBDENUM (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>SODIUM (ICP)</b>	≤ 50 MG/KG	< 50 MG/KG
<b>NICKEL (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>LEAD (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>STRONTIUM (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>ZINC (ICP)</b>	≤ 5 MG/KG	< 5 MG/KG
<b>ARSENIC TRACES (MHS-AAS)</b>	≤ 0.1 MG/KG	< 0.050MG/KG
<b>TOTAL SULFUR AS SO4 (ICP)</b>	≤50 MG/KG	< 50MG/KG
<b>CHLORIDE (CL)</b>	≤ 50 MG/KG	< 25MG/KG
<b>SOLUBILITY (METHOD)</b>	--	2.673 G IN 30 ML H2O (1 M)
<b>APPEARANCE (SOLUTION)</b>	CLEAR COLORLESS	CLEAR COLORLESS

<b>PH</b>	6.0 - 7.0	6.4
<b>RESIDUE (FILTER TEST)</b>	NO RESIDUE	NO RESIDUE
<b>UV - ABS. AT 260 NM</b>	≤ 0.05	0.052
<b>UV - ABS. AT 280 NM</b>	≤ 0.04	0.044
<b>QC RELEASE DATE</b>	10/AUG/06	
<b>RECOMMENDED RETEST DATE</b>	JAN/11	



Edeltraud Schwärzler, Manager  
Quality Control  
Buchs, Switzerland

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