

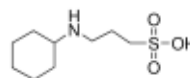
3050 Spruce Street, Saint Louis, MO 63103, USA

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## Product Specification

Product Name:  
CAPS - BioUltra, ≥99.0% (TLC)

**Product Number:** 29337  
**CAS Number:** 1135-40-6  
**MDL:** MFCD00003837  
**Formula:** C<sub>9</sub>H<sub>19</sub>NO<sub>3</sub>S  
**Formula Weight:** 221.32 g/mol



### TEST

### Specification

Appearance (Color)	Colorless or White
Appearance (Form)	Powder
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
0.5 M, H <sub>2</sub> O	
Infrared Spectrum	Conforms to Structure
Loss on Drying	≤ 1.0 %
(110 deg C)	
Residue on ignition (Ash)	≤ 0.1 %
SO <sub>4</sub> , 900 deg C	
Insoluble Matter	Pass
Filter test	
Sulfate (SO <sub>4</sub> )	≤ 150 mg/kg
Carbon	48.0 - 49.6 %
Nitrogen	6.0 - 6.6 %
Metal Trace Analysis (ICP)	Corresponds to Requirements
Aluminum (ICP)	≤ 5 mg/kg
Bismuth (ICP)	≤ 5 mg/kg
Lead (ICP)	≤ 5 mg/kg
Arsenic ((As)	≤ 0.1 mg/kg
Barium (ICP)	≤ 5 mg/kg
Cadmium (ICP)	≤ 5 mg/kg
Cobalt (ICP)	≤ 5 mg/kg
Copper (ICP)	≤ 5 mg/kg
Strontium (ICP)	≤ 5 mg/kg

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](http://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.

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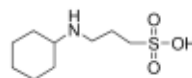
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TEST	Specification
Zinc (ICP)	≤ 5 mg/kg
Potassium (ICP)	≤ 50 mg/kg
Calcium (Ca)	≤ 10 mg/kg
Chromium (Cr)	≤ 5 mg/kg
Magnesium (Mg)	≤ 5 mg/kg
Manganese (Mn)	≤ 5 mg/kg
Iron (Fe)	≤ 5 mg/kg
Lithium	≤ 5 mg/kg
Molybdenum (Mo)	≤ 5 mg/kg
Nickel	≤ 5 mg/kg
Sodium (Na)	≤ 50 mg/kg
A260 UV Absorption c = 0.5 M H <sub>2</sub> O	≤ 0.04
A280 Absorption c = 0.5 M H <sub>2</sub> O	≤ 0.04
Chloride (Cl)	≤ 50 mg/kg
pH 0.5 M H <sub>2</sub> O	3.5 - 6.0
Purity (TLC)	≥ 99.0 %
Recommended Retest Period 42 months	-----

Specification: PRD.0.ZQ5.10000060104

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