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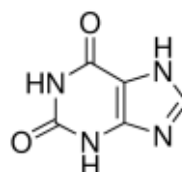
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## Product Specification

Product Name:  
Xanthine - BioUltra, ≥99%

**Product Number:** X4002  
**CAS Number:** 69-89-6  
**MDL:** MFCD00078453  
**Formula:** C<sub>5</sub>H<sub>4</sub>N<sub>4</sub>O<sub>2</sub>  
**Formula Weight:** 152.11 g/mol



TEST	Specification
Appearance (Color)	White to Light Yellow
Appearance (Form)	Powder
Solubility (Color)	Colorless to Light Yellow
Solubility (Turbidity)	Clear
0.1 M solution in 1 M NaOH	
Residue on ignition (Ash)	≤ 0.1 %
Aluminum (AL)	≤ 0.0005 %
Phosphorus (P)	≤ 0.0005 %
Lead (Pb)	≤ 0.001 %
Calcium (Ca)	≤ 0.0005 %
Magnesium (Mg)	≤ 0.0005 %
Sodium (Na)	≤ 0.005 %
Iron (Fe)	≤ 0.0005 %
Copper (Cu)	≤ 0.0005 %
Zinc (Zn)	≤ 0.0005 %
Potassium (K)	≤ 0.005 %
Ammonia (NH <sub>4</sub> )	≤ 0.05 %
Insoluble matter	≤ 0.1 %
Sulfate	≤ 0.05 %
Purity (HPLC)	≥ 99 %
Recommended Retest Period	-----
4 years	

Specification: PRD.0.ZQ5.10000097339

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.