

Certificate of Analysis

Product Name:

Barium nitrate - ACS reagent, ≥99%

Product Number: 217581
Batch Number: MKCX3218
Brand: SIGALD
CAS Number: 10022-31-8
MDL Number: MFCD00003442
Formula: BaN2O6
Formula Weight: 261.34 g/mol
Quality Release Date: 18 FEB 2025



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Powder
Complexometric EDTA	≥ 99.0 %	100.3 %
X-Ray Diffraction	Conforms to Structure	Conforms
Insoluble Matter	≤ 0.01 %	< 0.01 %
Calcium (Ca)	≤ 0.05 %	< 0.01 %
Chloride (Cl)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	1 ppm
Heavy Metals by ICP-OES	≤ 5 ppm	< 1 ppm
pH At 25°C (c= 5%, Water)	5.0 - 8.0	5.1
Strontium (Sr)	≤ 0.1 %	< 0.1 %
Potassium (K)	≤ 0.005 %	< 0.005 %
Sodium (Na)	≤ 0.005 %	< 0.005 %
Meets ACS Requirements	Current ACS Specification	Conforms



Larry Coers, Director
Quality Control
Milwaukee, WI US

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. 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.

