

Certificate of Analysis

Product Name:

Bismuth(III) nitrate pentahydrate - ACS reagent, ≥98.0%

Product Number: 383074
Batch Number: MKCV9315
Brand: SIGALD
CAS Number: 10035-06-0
MDL Number: MFCD00149157
Formula: Bi(NO₃)₃ · 5H₂O
Formula Weight: 485.07 g/mol
Quality Release Date: 18 APR 2024



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Solid or Chunks	Crystals
X-Ray Diffraction	Conforms to Structure	Conforms
Complexometric EDTA	≥ 98.0 %	99.1 %
Insoluble Matter	≤ 0.005 %	< 0.005 %
C = 20%, Dilute HNO ₃ (1+ 4)		
Silver (Ag)	≤ 0.001 %	< 0.001 %
Arsenic (As)	≤ 0.001 %	< 0.001 %
Calcium (Ca)	≤ 0.005 %	< 0.005 %
Chloride Content	≤ 0.001 %	< 0.001 %
Copper (Cu)	≤ 0.002 %	< 0.002 %
Iron (Fe)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.01 %	< 0.01 %
Sodium (Na)	≤ 0.02 %	< 0.02 %
Lead (Pb)	≤ 0.002 %	< 0.002 %
Sulfate (SO ₄)	≤ 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.

