

## Certificate of Analysis

Product Name:

Barium – rod, diam. ~2 cm, ≥99% trace metals basis

Ba

**Product Number:** 237094  
**Lot Number:** MKBJ3889V  
**Brand:** ALDRICH  
**CAS Number:** 7440-39-3  
**MDL Number:** MFCD00134031  
**Formula:** Ba  
**Formula Weight:** 137.33 g/mol  
**Quality Release Date:** 14 DEC 2011

Test	Specification	Result
Appearance (Color) White to Grey or Dark Grey	Conforms to Requirements	Grey
Appearance (Form) Rods, Chunks or Cylinders	Conforms to Requirements	Chunks
Diameter 2 cm	Conforms	Conforms
ICP Major Analysis Confirms Ba Component	Confirmed	Conforms
Trace Metal Analysis	≤ 10000.0 ppm	1011.8 ppm
Sodium (Na)		3.5 ppm
Nickel (Ni)		2.3 ppm
Cesium (Cs)		0.3 ppm
Magnesium (Mg)		5.7 ppm
Calcium (Ca)		178.0 ppm
Copper (Cu)		2.0 ppm
Strontium (Sr)		676.0 ppm
Yttrium (Y)		7.0 ppm
Zinc (Zn)		32.8 ppm
Lanthanum (La)		5.7 ppm
Aluminum (Al)		38.2 ppm
Gallium (Ga)		0.8 ppm
Chromium (Cr)		0.7 ppm
Tin (Sn)		1.0 ppm
Lead (Pb)		0.4 ppm

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.

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Test	Specification	Result
Manganese (Mn)		47.4 ppm
Arsenic (As)		2.0 ppm
Iron (Fe)		4.0 ppm
Samarium (Sm)		4.0 ppm
Purity	Meets Requirements	Meets Requirements
>=99% Based On Trace Metals Analysis		



Jamie Gleason, Manager  
Quality Control  
Milwaukee, Wisconsin US

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