

Certificate of Analysis

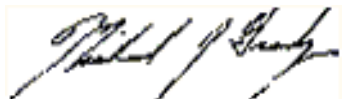
Product Name : Terbium(III) nitrate pentahydrate 99.9% trace metals basis
Product Number : 325945-5G
Batch Number : 0000073688
 Source Batch : MKCH5726
 CAS Number : 57584-27-7
 Molecular Formula : $N_3O_9Tb \cdot 5H_2O$
 Formula Weight : 435.02
 Quality Release Date : 19 Nov 2018

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Solid or Chunks	Crystals
Complexometric EDTA % Terbium	35.2 - 37.8 %	36.2 %
ICP Major Analysis Confirms Terbium Component	Confirmed	Confirmed
Purity 99.9% Based On Rare Earth Analysis	Meets Requirements	Meets Requirements
Trace Rare Earth Analysis	≤ 1500.0 ppm	22.8 ppm
Silver (Ag)		21.6 ppm
Barium (Ba)		1.4 ppm
Beryllium (Be)		12.4 ppm
Chromium (Cr)		5.9 ppm
Lithium (Li)		4.7 ppm
Manganese (Mn)		0.5 ppm
Sodium (Na)		32.5 ppm
Nickel (Ni)		11.0 ppm
Palladium (Pd)		128.8 ppm
Tin (Sn)		39.0 ppm
Vanadium (V)		79.4 ppm
Zinc (Zn)		7.2 ppm
Zirconium (Zr)		10.5 ppm
Dysprosium (Dy)		9.8 ppm
Europium (Eu)		0.5 ppm
Neodymium (Nd)		12.4 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. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale.



Product 325945-5G
Batch 0000073688



Michael Grady, Manager

Quality Control

Milwaukee, WI

US

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