



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-258198
Lot Number: SAMPLE
Product Name: Terbium(III) nitrate pentahydrate
CAS Number: 57584-27-7
Molecular Formula: $\text{Tb}(\text{NO}_3)_3 \cdot 5\text{H}_2\text{O}$
Molecular Weight: 435.02

Test	Specification	Result
Appearance (Color)	White	Complies
Appearance (Form)	Powder, Solid, Crystalline Powder and/or Chunks	Powder with
Identification (ICP)	Consistent with terbium component	Complies
Purity	99.9% based on rare earth analysis	Complies
Trace Rare Earth Analysis	≤ 2000.0 ppm	8.8 ppm
Aluminum		7.0 ppm
Arsenic		13.7 ppm
Barium		0.8 ppm
Beryllium		10.3 ppm
Cadmium		4.9 ppm
Calcium		0.2 ppm
Chromium		1.9 ppm
Cobalt		12.0 ppm
Copper		10.8 ppm
Dysprosium		4.0 ppm
Lanthanum		3.2 ppm
Lithium		5.8 ppm
Manganese		0.4 ppm
Neodymium		1.6 ppm

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

Santa Cruz Biotechnology, Inc. 800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 62221 4503 0 www.scbt.com

Nickel		8.8 ppm
Silver		3.3 ppm
Strontium		0.1 ppm
Terbium	35.2 - 37.8% by complexometric EDTA	36.5%
Zinc		5.9 ppm

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

Santa Cruz Biotechnology, Inc. 800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 62221 4503 0 www.scbt.com