



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-228236
Lot Number: SAMPLE
Product Name: Gadolinium(III) iodide
CAS Number: 13572-98-0
Molecular Formula: GdI_3
Molecular Weight: 537.96

Test	Specification	Result
Appearance	White to off-white powder	Off-white powder
Identification (ICP)	Confirms Gd component	Complies
Purity	99.99% (Based on rare earth analysis)	Complies
Trace Rare Earth Analysis	≤ 200.0 ppm	< 200.0 ppm
Calcium		2.5 ppm
Cerium		0.9 ppm
Copper		5.7 ppm
Dysprosium		10.0 ppm
Erbium		0.3 ppm
Gadolinium	28.6 - 29.8 % (by complexometric EDTA)	29.1 %
Hafnium		0.6 ppm
Iodide	67.2 - 72.7 % (Titration by $AgNO_3$)	70.5 %
Iron		14.0 ppm
Lanthanum		2.4 ppm
Manganese		0.4 ppm
Mercury		0.2 ppm
Neodymium		9.6 ppm
Potassium		1.6 ppm
Praseodymium		2.0 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

Samarium	0.2 ppm
Sodium	2.1 ppm
Terbium	0.6 ppm
Tin	4.8 ppm
Thulium	1.9 ppm
Tungsten	0.2 ppm
Yttrium	2.1 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