



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-250120  
Lot Number: SAMPLE  
Product Name: Holmium(III) chloride hexahydrate  
CAS Number: 14914-84-2  
Molecular Formula:  $\text{HoCl}_3 \cdot 6\text{H}_2\text{O}$   
Molecular Weight: 379.38

Test	Specification	Result
Appearance	Pale yellow to pink to orange moist crystals and/or chunks	Orange crystals
Identification (ICP)	Confirms Holmium Component	Complies
Purity	99.9% Based on Rare Earth Analysis	Complies
Trace Rare Earth Analysis	$\leq 1500.0\text{ppm}$	799.5 ppm
Aluminum		1.8 ppm
Barium		1.9 ppm
Beryllium		1.4 ppm
Bismuth		37.9 ppm
Cadmium		9.0 ppm
Calcium		12.9 ppm
Cerium		181.5 ppm
Chromium		45.2 ppm
Cobalt		74.0 ppm
Europium		17.1 ppm
Gadolinium		188.7 ppm
Holmium	Complexometric EDTA : 41.3 - 45.5%	43.8%
Iron		20.9 ppm
Iridium		234.5 ppm
Lanthanum		2.2 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](http://www.scbt.com)

Lead	353.5 ppm
Lutetium	4.5 ppm
Molybdenum	43.7 ppm
Palladium	29.7 ppm
Platinum	7.7 ppm
Potassium	99.1 ppm
Samarium	42.7 ppm
Sodium	27.3 ppm
Terbium	259.2 ppm
Thulium	100.2 ppm
Ytterbium	3.4 ppm
Zinc	15.8 ppm
Zirconium	399.9 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](http://www.scbt.com)