



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-237423  
Lot Number: SAMPLE  
Product Name: Ytterbium(III) chloride hexahydrate  
CAS Number: 10035-01-5  
Molecular Formula:  $\text{YbCl}_3 \cdot 6\text{H}_2\text{O}$   
Molecular Weight: 387.49

Test	Specification	Result
Appearance	White crystals or crystalline powder and/or chunks	White crystals
Identification (ICP)	Confirms ytterbium component	Complies
Purity	99.9% (based on rare earth analysis)	Complies
Trace Rare Earth Analysis	$\leq 1500.0$ ppm	280.1 ppm
Boron		0.5 ppm
Calcium		4.9 ppm
Erbium		11.1 ppm
Gadolinium		1.4 ppm
Lanthanum		3.9 ppm
Lead		16.9 ppm
Lutetium		241.6 ppm
Manganese		2.7 ppm
Palladium		6.7 ppm
Samarium		3.1 ppm
Strontium		0.1 ppm
Thulium		16.5 ppm
Tungsten		36.8 ppm
Vanadium		3.6 ppm
Ytterbium	43.1 - 46.2%	43.9%

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.

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Yttrium	2.6 ppm
Zirconium	0.6 ppm

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