



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-258343  
Lot Number: SAMPLE  
Product Name: Yttrium(III) butoxide solution  
CAS Number: 111941-71-0  
Molecular Formula:  $Y(OC_4H_9)_3$   
Molecular Weight: 308.25

Test	Specification	Result
Appearance	Colorless to dark yellow liquid	Colorless liquid
Identification (ICP)	Consistent with Yttrium component	Complies
Identification (Infrared Spectrum)	Consistent with structure	Complies
Purity	$\geq 99.0\%$ based On Rare Earth Analysis	Complies
Titration	Complexometric Titration: 0.45 - 0.55 M	0.47 M
Trace Rare Earth Analysis	$\leq 1000$ ppm	2.2 ppm
Cadmium		0.2 ppm
Calcium		7.9 ppm
Copper		0.6 ppm
Europium		0.3 ppm
Gadolinium		0.7 ppm
Iron		1.0 ppm
Magnesium		0.1 ppm
Manganese		0.1 ppm
Palladium		4.8 ppm
Silver		17.3 ppm
Sodium		420.2 ppm
Terbium		0.5 ppm
Titanium		0.2 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.

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Thulium	0.6 ppm
Vanadium	0.4 ppm
Ytterbium	0.1 ppm
Zirconium	0.7 ppm

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