



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-251437
Lot Number: SAMPLE
Product Name: Ytterbium(III) nitrate pentahydrate
CAS Number: 35725-34-9
Molecular Formula: $\text{YbN}_3\text{O}_9 \cdot 5\text{H}_2\text{O}$
Molecular Weight: 449.13

Test	Specification	Result
Appearance	White crystals or crystalline powder and / or chunks	White crystalline powder
Identification (ICP)	Confirms ytterbium component	Complies
Purity	99.9% (based on rare earth analysis)	Complies
Trace Rare Earth Analysis	≤ 1500.0 ppm	46.9 ppm
Aluminum		4.0 ppm
Barium		0.9 ppm
Boron		1.2 ppm
Cadmium		0.8 ppm
Calcium		25.5 ppm
Copper		2.8 ppm
Erbium		1.6 ppm
Gadolinium		1.5 ppm
Holmium		0.9 ppm
Iron		2.6 ppm
Lanthanum		5.3 ppm
Lead		12.0 ppm
Lithium		0.9 ppm
Lutetium		14.5 ppm
Magnesium		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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Manganese		2.4 ppm
Palladium		4.8 ppm
Silver		2.6 ppm
Sodium		3.5 ppm
Strontium		0.1 ppm
Thulium		20.3 ppm
Vanadium		2.4 ppm
Ytterbium	37.4 - 39.7% (Complexometric EDTA)	38.5%
Yttrium		2.7 ppm
Zinc		1.8 ppm

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