



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-228419  
Lot Number: SAMPLE  
Product Name: Lithium niobate  
CAS Number: 12031-63-9  
Molecular Formula:  $\text{LiNbO}_3$   
Molecular Weight: 147.85

Test	Specification	Result
Appearance	White to off white powder	Off white powder
Atomic Absorption	$\leq 2000.0$ ppm	39.9 ppm
Purity (Trace Metal Analysis)	99.9% by ICP and AA Combined	Complies
Trace metal analysis	$\leq 2000.0$ ppm	39.9 ppm
X-Ray Powder Diffraction	Consistent with structure	Complies
Aluminum		16.0 ppm
Boron		0.3 ppm
Calcium		5.5 ppm
Chromium		1.1 ppm
Iron		3.0 ppm
Magnesium		0.7 ppm
Manganese		0.1 ppm
Molybdenum		0.5 ppm
Nickel		0.1 ppm
Potassium		2.6 ppm
Sodium		7.8 ppm
Titanium		0.2 ppm
Tungsten		0.2 ppm
Zinc		1.8 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)

---

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.