



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-253710
Lot Number: SAMPLE
Product Name: Toluidine Blue
CAS Number: 6586-04-5
Molecular Formula: $C_{15}H_{16}ClN_3S \cdot 0.5ZnCl_2$
Molecular Weight: 373.97

Test	Specification	Result
Appearance (Color)	Green to very dark green	Very dark green
Appearance (Form)	Powder or crystals	Powder
Atomic Absorption	Zn (theory) 8.74 %, typically 3 - 9 %	4.7 % Zn
Identification (TLC)	Complies with structure	Complies
Purity (Argentometric Titration)	80.0 - 120.0 %	97.3 %
Solution (Color)	blue to very deep blue	Very deep blue
Solution (Turbidity)		Clear (< 3.5 NTU)
Extinction Coefficient	≥ 800	1304
Wavelength	621 - 636 nm	629.8 nm
Loss on Drying	≤ 8.0 %	3.0 %
Sulfated Ash	Typically 7 - 23 %	13.4 %

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