



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-208432
Lot Number: SAMPLE
Product Name: Tetranitro blue tetrazolium chloride
CAS Number: 1184-43-6
Molecular Formula: $C_{40}H_{28}Cl_2N_{12}O_{10}$
Molecular Weight: 907.63

Test	Specification	Result
Appearance	Yellow to yellow-brown to beige to orange powder or crystals	Yellow powder
¹ H-NMR	Conforms to structure	Complies
Residue on Ignition	≤ 0.1%	< 0.1%
Solution (Color)	Yellow to very dark yellow to light brown-yellow to very dark brown-yellow	Light brown-yellow
Solution (Turbidity)	Clear to hazy (0.090g in 10 mL 2-methoxyethanol, hot)	Clear
Extinction Coefficient	≥ 700 (1%/1cm in methanol)	722
Wavelength	271 - 281 nm (UV)	274 nm
Loss on Drying	≤ 25%	11%
Titration	≥ 85% (with AgNO ₃)	86%
Carbon Content	52.93%	47.20%
Hydrogen Content	3.11%	3.50
Nitrogen Content	18.52%	16.00%

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