



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-206049
Lot Number: SAMPLE
Product Name: Thymol Blue
CAS Number: 76-61-9
Molecular Formula: $C_{27}H_{30}O_5S$
Molecular Weight: 466.59

Test	Specification	Result
Appearance	Dark green to brown or black powder	Complies
pH Transition Range	1.2 - 2.8 (red-greenish yellow) 7.8 - 9.5 (greenish yellow-blue)	Complies
Solubility	Clear solution (0.1% in ethanol)	Complies
Absorbance	≥ 200 (pH 7.8, $\lambda 1$) (E1%, 1cm cell)	282
Absorbance	≥ 450 (pH 9.5, $\lambda 2$) (E1%, 1cm cell)	532
Dye Content	$\geq 95.0\%$	96.7%
$\lambda_{max} 1$	431 - 436 nm (pH 7.8)	435.0 nm
$\lambda_{max} 2$	594 - 598 nm (pH 9.5)	596.2 nm
Loss on Drying	$\leq 3.0\%$	Complies

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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