



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-250653  
Lot Number: SAMPLE  
Product Name: Patent blue V sodium salt  
CAS Number: 20262-76-4  
Molecular Formula:  $C_{27}H_{31}N_2O_7S_2 \cdot Na$   
Molecular Weight: 582.66

Test	Specification	Result
Appearance	Blue to very dark blue and green to very dark green powder	Very dark blue powder
Atomic Absorption	Sodium: 5 - 10%	5.5%
Identification ( $^1H$ -NMR)	Consistent with structure	Complies
Identification (TLC)	Consistent with standard	Complies
Solution (Color)	Blue to very deep blue at 1 mg/ml in methanol/water 1: 1	Very deep blue
Solution (Turbidity)		Clear (< 3.5 NTU) at 1 mg/ml in methanol/water 1: 1
Absorption Excitation (1)	630 - 640 nm	635.8 nm
Extinction Coefficient (1)	$\geq 1200$ (1%1cm)	1456
Absorption Excitation (2)	405 - 415 nm	410.5 nm
Extinction Coefficient (2)	$\geq 50$	176

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