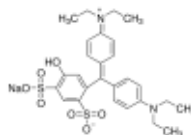


Certificate of Analysis

Product Name:

Patent blue V sodium salt - for microscopy

Product Number: 21605
Batch Number: BCCH7626
Brand: SIGMA
CAS Number: 20262-76-4
Formula: C₂₇H₃₁N₂NaO₇S₂
Formula Weight: 582,66 g/mol
Quality Release Date: 16 JUN 2022



Test	Specification	Result
Appearance (Color)	Blue to Very Dark Blue and Green to Very Very Dark Blue Dark Green and Black	
Appearance (Form)	Powder	Powder
Thin Layer Chromatography	Corresponds to Standard	Corresponds
Solubility (Color)	Blue to Very Dark Blue	Very Dark Blue
Solubility (Turbidity)	Conforms to Requirements	Clear
0.01g in 10ml Methanol/Water 1:1		
1H NMR Spectrum	Conforms to Structure	Conforms
Wavelength (1)(UV)	630 - 640 nm	638 nm
Extinction (1)(UV)	≥ 1200	1776
(1%/1cm)		
Wavelength	405 - 415 nm	411 nm
(2)(UV)		
Extinction Coefficient	≥ 50	201
(2)(UV) (1%/1cm)		
Solvent	Water	Water
(UV)		
Assay (ICP)	5.0 - 10.0 %	5.8 %
Sodium (Typically 5 - 10 %)		

Dr. Reinhold Schwenninger
 Quality Assurance
 Buchs, Switzerland CH

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

