

Certificate of Analysis

Product Name:

Fluorescein - for fluorescence, free acid

Product Number: 46955
Batch Number: BCBV9534
Brand: SIGMA
CAS Number: 2321-07-5
Formula: C₂₀H₁₂O₅
Formula Weight: 332,31 g/mol
Quality Release Date: 19 OCT 2017
Date Retested: 08 MAY 2024

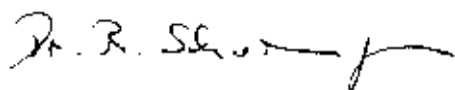
Test	Specification	Result
Appearance (Color)	Orange to Very Dark Orange and Red to Very Dark Red	Very Dark Red
Appearance (Form)	Powder or Crystals	Powder
Purity (HPLC)	≥ 95.0 %	97.4 %
Solubility (Color)	Orange to Very Dark Orange	Orange
Solubility (Turbidity) 0.1g in 10ml Methanol	Corresponds to Requirements	Corresponds
Residue on Ignition	≤ 1.0 %	0.4 %
Carbon Content 72.29 % (Theory)		70.95 %
Hydrogen Content 3.64 % (Theory)		3.92 %
Infrared Spectrum	Conforms to Structure	Conforms
Wavelength (1)(UV)	486.0 - 501.0 nm	491.0 nm
Extinction (1)(UV) (1%/1cm)	2000 - 2600	2472
Solvent (UV)	0.1N NaOH	0.1N NaOH
Fluorescence (Emmission Max) 514 +/- 5 nm Exc.:490 nm in 0.1 M Tris ph 8.0	509 - 519 nm	514 nm

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.



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Dr. Reinhold Schwenninger
Quality Assurance
Buchs, Switzerland CH

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