

Certificate of Analysis

Date of Testing: 2024-01-24 16:42:40

Date of Next Testing: 2027-01-23 16:42:40

Product Name: **Thymol blue**

CAS Number: 76-61-9

Specifications & Purity: indicator ACS,Reag. Ph Eur

Lot #: A2416766

SKU #: **T433770**

Version: **2**

Analysis #: **301403**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Absorption maximum λ 1 max. (buffer pH 1.2)	543-547 (nm)	545.00000 nm
Absorption maximum λ 2 max. (buffer pH 2.8)	431-437 (nm)	434.00000 nm
Absorption maximum λ 3 max. (buffer pH 7.8)	431-437 (nm)	434.00000 nm
Absorption maximum λ 4 max. (buffer pH 9.5)	594-598 (nm)	597.00000 nm
Loss on drying(110°C)	0-5 (%)	4.00 %
Spec. Absorptivity A 1%/1cm (λ 1 max;0.01 g/L; buffer pH 1.2;calc. on dried substances)	580-720	590.00000
Spec. Absorptivity A 1%/1cm (λ 2 max; 0.01 g/L; buffer pH 2.8;calc. on dried substances)	250-370	320.00000
Spec. Absorptivity A 1%/1cm (λ 3 max;0.01 g/L; buffer pH 7.8;calc. on dried substances)	250-370	307.00000
Spec. Absorptivity A 1%/1cm(λ 4 max;0.01 g/L; buffer pH 9.5;calc. on dried substances)	580-700	622.00000
1st transition range(1.2- 2.8, violet red -brownish yellow)	Pass	Pass
2nd transition range(7.8-9.5, greenish yellow -blue)	Pass	Pass
Appearance(T433770)	Powder	Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager