

Certificate of Analysis

Date of Testing:	2025-05-09 10:56:52
Date of Next Testing:	2028-05-08 10:56:52
Product Name:	Crystal violet (C.I. 42555)
CAS Number:	548-62-9
Specifications & Purity:	indicator, ACS, Ph.Eur.
Lot #:	D2529072
SKU #	C432890
Version	2
Analysis #:	476459
Storage Temperature:	Protected from light, Room temperature, Argon charged

Parameter	Limit Values	Result
Dye content(spectrophotometrically ; calc. on dried substance)	90-100 (%)	94.46800 %
Absorbance characteristics(Ratio $E(\lambda_{max}-15nm)/E(\lambda_{max}+15nm)$)	0.98-1.2	1.13105
Absorption maximum λ_{max} (water)	589-594 (nm)	590.00000 nm
Spec. Absorptivity $A_{1\%}/1cm(589-594\text{ nm}; 0.002g/; \text{water})$	2000-2450	2166.66667
Loss on drying(110°C, 4 h)	0-7.5 (%)	2.97343 %
Impurity content(Michler`s ketone)	<0.10 (%)	0.06000 %
Suitability as indicator	conforms	Conforms
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager