

## Certificate of Analysis

Date of Testing: 2023-03-15 19:17:20  
Date of Next Testing: 2025-03-04 19:17:20  
Product Name: **Bromothymol blue**  
CAS Number: 76-59-5  
Specifications & Purity: ACS,Dye content 95 %  
Lot #: C2311776  
SKU #: **B100250**  
Analysis: **173179**

Parameter	Limit Values	Result
Extinction Coefficient( $\lambda$ :419- 425 nm,c = 0.02g/L; MEtOH)	$\geq 17000$	17512.37
Extinction Coefficient( $\lambda$ :326- 332 nm,c = 0.02g/L; MEtOH)	$\geq 8000$	8562.93
Extinction Coefficient( $\lambda$ :279- 285 nm,c = 0.02g/L; MEtOH)	$\geq 9000$	9276.50
Purity(HPLC)	95-100 (%)	97.85200%
Appearance (B100250)	Purple and Pink Powder	Purple and Pink Powder
PH Transition interval,pH6.0(Yellow-Green) to pH6.7(Green) to pH7.6(blue)	Conforms	Conforms
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager