



## Certificate of Analysis

### Crystal Violet Certified

**Catalog Number:** CV1001  
**Lot Number:** 0814904  
**CAS Number:** 548-62-9  
**C.I. Number:** 42555  
**Molecular Formula:**  $C_{25}H_{30}ClN_3$   
**Molecular Weight:** 407.98  
**Storage:** 15°C – 30°C  
**Date of Manufacture:** March 1, 2019  
**Retest Date:** February 28, 2022

Test	Specification	Result
Appearance	Dark green crystals or powder	Conforms
Assay (anhydrous)	96.0% - 100.5%	99.73%
Assay Total Dye Content (as is)	≥ 88.0%	91.0%
Moisture (LOD)	≤ 7.5%	3.12%
Sensitivity as indicator	To pass test	Conforms
Visual Transition Interval	From pH 0.0 (yellow) to pH 2.0 (violet)	Conforms
Spectroscopy (1.0% aqueous)	Abs peak 589nm – 594nm	Abs peak 591nm Ratio 1.16 @ 576/606nm Density @ peak 0.436au
Alcohol-insoluble substances	≤ 1.0%	0.15%
Arsenic	≤ 0.001%	< 0.001%
Lead	≤ 0.003%	< 0.001%
Zinc	≤ 0.05%	< 0.002%

Approved by:

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Date: August 15, 2019