

## Certificate of Analysis

Date of Testing: 2023-03-27 22:26:27

Date of Next Testing: 2027-03-26 22:26:27

Product Name: **Celestine blue**

CAS Number: 1562-90-9

Specifications & Purity: Dye content 80 %

Lot #: C2321469

SKU # **C106040**

**Analysis: 175698**

| Parameter                                                                         | Limit Values          | Result                |
|-----------------------------------------------------------------------------------|-----------------------|-----------------------|
| Extinction Coefficient(c = 0.01 g/l; H <sub>2</sub> O)                            | ≥29000                | 32985.00              |
| λ max(c = 0.01 g/l; H <sub>2</sub> O)                                             | 640-650 (nm)          | 641.00 nm             |
| Dye Content                                                                       | 80-100 (%)            | 81.00 %               |
| Nitrogen by Elemental Analysis                                                    | 9.0-11.8 (%)          | 9.10 %                |
| Carbon by Elemental Analysis                                                      | 44.0-57.3 (%)         | 45.00 %               |
| Appearance (C106040)                                                              | Powder                | Powder                |
| Infrared spectrum                                                                 | Conforms to Structure | Conforms to Structure |
| Solubility in H <sub>2</sub> O , Dark Blue to Dark Purple to Blue-Purple,c = 0.1% | pass                  | Pass                  |



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