

ALADDIN SCIENTIFIC CORPORATION

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## Certificate of Analysis

Date of Testing: 2022-02-08 11:54:03

Date of Next Testing: 2026-02-07 11:54:03

Product Name: **Patent Blue VF**

CAS Number: 129-17-9

Specifications & Purity: Dye content 50 %

Lot #: A2218020

SKU #: **P107927**

Version: **0**

Analysis #: **071253**

Storage Temperature: Room temperature

| Parameter                                                                         | Limit Values                                       | Result                                             |
|-----------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| Extinction Coefficient( $\lambda$ : 635 - 641 nm In H <sub>2</sub> O)             | $\geq 50000$                                       | 50000.00000                                        |
| Extinction Coefficient( $\lambda$ : 308 - 314 nm In H <sub>2</sub> O)             | $\geq 7500$                                        | 7500.00000                                         |
| Nitrogen by Elemental Analysis                                                    | 2.4-7.4 (%)                                        | 2.50000 %                                          |
| Carbon by Elemental Analysis                                                      | 28.6-75 (%)                                        | 28.70000 %                                         |
| Extinction Coefficient( $\lambda$ : 408 - 414 nm In H <sub>2</sub> O)             | $\geq 5300$                                        | 5300.00000                                         |
| Appearance (P107927)                                                              | Beige-Green/Blue-Green/Brown-Green to Green Powder | Beige-Green/Blue-Green/Brown-Green to Green Powder |
| Proton NMR spectrum                                                               | Conforms to Structure                              | Conforms to Structure                              |
| Solubility in H <sub>2</sub> O , Dark Blue to Very Dark Blue-Green,C=1mg/ml(0.1%) | pass                                               | Pass                                               |



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