

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-26 16:17:30

Date of Next Testing: 2027-07-25 16:17:30

Product Name: **Patent Blue VF**

CAS Number: 129-17-9

Specifications & Purity: Dye content 50 %

Lot #: G2315360

SKU #: **P107927**

Version: **0**

Analysis #: **243327**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Extinction Coefficient(λ : 635 - 641 nm In H ₂ O)	≥ 50000	108635.35860
Extinction Coefficient(λ : 308 - 314 nm In H ₂ O)	≥ 7500	18020.80901
Nitrogen by Elemental Analysis	2.4-7.4 (%)	4.59700 %
Carbon by Elemental Analysis	28.6-75 (%)	52.35600 %
Extinction Coefficient(λ : 408 - 414 nm In H ₂ O)	≥ 5300	12660.51171
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 ₂ O , Dark Blue to Very Dark Blue-Green,C=1mg/ml(0.1%)	pass	Pass



John Su
QA & QC Manager