

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-06-24 14:38:42
 Date of Next Testing: 2030-06-23 14:38:42
 Product Name: **Protoporphyrin IX(PPIX)**
 CAS Number: 553-12-8
 Specifications & Purity: Moligand™, ≥95%
 Lot #: F2623349
 SKU #: **P103197**
 Version: **0**
 Analysis #: **725397**
 Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

Parameter	Limit Values	Result
EmM(in 3 M HCl, 408-409nm)	200-300	233.00000
Purity(HPLC)	95-100 (%)	99.00000 %
Carbon by Elemental Analysis	68.6-76.6 (%)	68.70000 %
Nitrogen by Elemental Analysis	9.4-10.6 (%)	9.50000 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in DMF/MeOH (1/1) , Dark Red to Brown, 10 mg/mL	pass	Pass
Appearance (P103197)	Red to purple to Brown to Black Powder to solid	Red to purple to Brown to Black Powder to solid



John Su
QA & QC Manager