

Certificate of Analysis

Date of Testing: 2025-03-13 11:45:40

Date of Next Testing: 2029-03-12 11:45:40

Product Name: **G 418 disulfate salt**

CAS Number: 108321-42-2

Specifications & Purity: potency: ≥ 650 ug per mg

Lot #: F2116132

SKU #: **G110917**

Version: **0**

Analysis #: **479217**

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis (anhydrous)	7.13-8.25 (%)	7.63 %
Carbon by Elemental Analysis(anhydrous)	30-35.4 (%)	33.20 %
Water by Karl Fischer	0-12 (%)	5.80 %
Specific Rotation $[\alpha]_{20/D}(c=0.3 \text{ in H}_2\text{O})$	105-115 (°)	105.50 °
Purity(HPLC)	90-100 (%)	93.60000 %
potency (dry basis)	≥ 650 (µg/mg)	678.00 µg/mg
Appearance (G110917)	White to Off-White Powder	White to Off-White Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , colorless to faint yellow clear to hazy,50mg/ml	pass	Pass



John Su
QA & QC Manager