

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-01 14:00:43  
 Date of Next Testing: 2027-02-28 14:00:43  
 Product Name: **G 418 disulfate salt**  
 CAS Number: 108321-42-2  
 Specifications & Purity: potency:  $\geq 650$  ug per mg  
 Lot #: B2321795  
 SKU #: **G110917**  
**Analysis: 153683**  
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis (anhydrous)	7.13-8.25 (%)	7.78 %
Carbon by Elemental Analysis(anhydrous)	30-35.4 (%)	32.37 %
Water by Karl Fischer	0-12 (%)	1.97 %
Specific Rotation $[\alpha]_{20/D}(c=0.3 \text{ in H}_2\text{O})$	105-115 (°)	108.22 °
Purity(HPLC)	90-100 (%)	96.65000 %
potency (dry basis)	$\geq 650$ ( $\mu\text{g}/\text{mg}$ )	725.00 $\mu\text{g}/\text{mg}$
Appearance (G110917)	White to Off-White Powder	White to Off-White Powder
Solubility in H <sub>2</sub> O , colorless to faint yellow clear to hazy,50mg/ml	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager