

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-01-14 15:23:25  
Date of Next Testing: 2027-01-13 15:23:25  
Product Name: **Amaranth**  
CAS Number: 915-67-3  
Specifications & Purity:  $\geq 85\%$   
Lot #: A2310093  
SKU #: **A109284**  
Version: **2**  
Analysis #: **168728**  
Storage Temperature: Protected from light

Parameter	Limit Values	Result
Loss on drying	0-9.4 (%)	3.25 %
Dye-content(UV-Vis)	85-100 (%)	85.02 %
Nitrogen(anhydrous)	3.9-4.6 (%)	4.56 %
Appearance (A109284)	dark brown to red-brown powder	dark brown to red-brown powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility(10 mg/mL, H <sub>2</sub> O, Clear)	pass	Pass



John Su  
QA & QC Manager