

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-04-12 16:36:09

Date of Next Testing: 2028-04-11 16:36:09

Product Name: **Amaranth**

CAS Number: 915-67-3

Specifications & Purity:  $\geq 85\%$

Lot #: G2003171

SKU #: **A109284**

Version: **2**

Analysis #: **341778**

Storage Temperature: Protected from light, Room temperature

| Parameter                        | Limit Values                   | Result                         |
|----------------------------------|--------------------------------|--------------------------------|
| Loss on drying                   | 0-9.4 (%)                      | 3.25000 %                      |
| Dye-content(UV-Vis)              | 85-100 (%)                     | 98.41000 %                     |
| Nitrogen(anhydrous)              | 3.9-4.6 (%)                    | 4.55000 %                      |
| 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, H2O, Clear) | pass                           | Pass                           |



John Su  
QA & QC Manager