



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-214532
Lot Number: SAMPLE
Product Name: Amaranth
CAS Number: 915-67-3
Molecular Formula: $C_{20}H_{11}N_2Na_3O_{10}S_3$
Molecular Weight: 604.47

| Test | Specification | Result |
|-------------------------|---------------------------------------|------------------|
| Appearance | Brown to red-brown powder | Red-brown powder |
| Identification (1H-NMR) | Conforms to structure | Complies |
| Solution (Color) | Red to red-brown at 10 mg/ml in water | Dark red |
| Solution (Turbidity) | Clear at 10 mg/ml in water | Complies |
| Dye Content | 85 - 95 % (Dry basis) | 92% |
| Loss on Drying | $\leq 9.4\%$ (3.5 mol/mol) | 0.7% |
| Nitrogen | 3.9 - 4.6 % (dry basis) | 4.3% |

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