

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2024-08-20 15:05:11
Date of Next Testing:	2027-08-20 15:05:11
Product Name:	Reactive Orange 16
CAS Number:	12225-83-1
Specifications & Purity:	Dye content $\geq 70\%$
Lot #:	H2412385
SKU #	R348553
Version	1
Analysis #:	394185
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Extinction	≥ 11000	15103.00000
Coefficient(λ :491 - 497 nm , c = 0.01g/L Water)		
Extinction	≥ 6000	7968.00000
Coefficient(λ :385 - 391nm)		
Extinction	≥ 11000	13224.00000
Coefficient(λ :294 - 300nm)		
Extinction	≥ 13000	14086.00000
Coefficient(λ :251 - 257nm)		
Purity(HPLC)	70-100 (%)	78.00000%
Appearance (R348553)	Orange to Very Dark Orange and Red to Very Dark Red and Orange-Red and Red-Orange Powder	Orange to Very Dark Orange and Red to Very Dark Red and Orange-Red and Red-Orange Powder
Proton NMR spectrum	Conforms to structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager