

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2024-08-20 15:09:19
Date of Next Testing:	2027-08-20 15:09:19
Product Name:	<b>Reactive Orange 16</b>
CAS Number:	12225-83-1
Specifications & Purity:	Dye content $\geq 70\%$
Lot #:	H2412384
SKU #	<b>R348553</b>
Version	<b>1</b>
<b>Analysis #:</b>	<b>394185</b>
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Extinction	$\geq 11000$	15103.00000
Coefficient( $\lambda$ :491 - 497 nm , c = 0.01g/L Water)		
Extinction	$\geq 6000$	7968.00000
Coefficient( $\lambda$ :385 - 391nm)		
Extinction	$\geq 11000$	13224.00000
Coefficient( $\lambda$ :294 - 300nm)		
Extinction	$\geq 13000$	14086.00000
Coefficient( $\lambda$ :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



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

John Su  
QA & QC Manager