

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-07-31 09:17:51
Date of Next Testing: 2029-07-30 09:17:51
Product Name: **Xanthophyll**
CAS Number: 127-40-2
Specifications & Purity: $\geq 75\%$
Lot #: G2511078
SKU #: **X109575**
Version: **0**
Analysis #: **549683**
Storage Temperature: Protected from light, Store at -20°C , Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	75-100 (%)	98.66800%
UV (Lambda max 1)	423-427 (nm)	425.20 nm
UV (Average % of Theory)	70-100 (%)	78.35%
UV (Lambda max 2)	443-447 (nm)	445.86 nm
UV (Lambda max 3)	473-477 (nm)	474.62 nm
Appearance (X109575)	orange to red or brown powder	orange to red or brown powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in CH_2CL_2 , Clear, Yellow to Orange or Brown, 0.98 - 1.02 mg/ml	pass	Pass
UV (Solvent Ethanol+ NaBH_4)	Conforms	Conforms



John Su
QA & QC Manager