

Certificate of Analysis

Date of Testing: 2024-12-20 15:40:14

Date of Next Testing: 2028-12-19 15:40:14

Product Name: **Xanthophyll**

CAS Number: 127-40-2

Specifications & Purity: $\geq 75\%$

Lot #: D1707135

SKU #: **X109575**

Version: **0**

Analysis #: **453030**

Storage Temperature: Protected from light, Store at -20°C , Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	75-100 (%)	86.70000 %
UV (Lambda max 1)	423-427 (nm)	425.00 nm
UV (Average % of Theory)	70-100 (%)	76.30 %
UV (Lambda max 2)	443-447 (nm)	445.00 nm
UV (Lambda max 3)	473-477 (nm)	476.00 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