

Certificate of Analysis

Date of Testing: 2024-01-20 14:17:43

Date of Next Testing: 2028-01-19 14:17:43

Product Name: **Xanthophyll**

CAS Number: 127-40-2

Specifications & Purity: $\geq 75\%$

Lot #: A2408040

SKU #: **X109575**

Version: **0**

Analysis #: **129361**

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



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QA & QC Manager