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## **SPECIMEN**

# Certificate of Analysis

For Laboratory Use Only

PRODUCT NAME	Violaxanthin	Structure
PART NUMBER	00022535	
STANDARD TYPE	Analytical Standard (AS)	
LOT NUMBER	00022535-146	
REPORT NUMBER	CDXA-RSS-10049-00	
DATE OF SAMPLE	01/17/2023	
DATE OF REPORT	01/20/2023	

CHEMICAL NAMES	(3S,3'S,5R,5'R,6S,6'S)-5,6:5',6'-Diepoxy-5,5',6,6'-tetrahydro-β,β-carotene-3,3'-diol; all- trans-Violaxanthin
CHEMICAL FORMULA	$C_{40}H_{56}O_4$
MOLECULAR WEIGHT (MW)	600.87
CHEMICAL FAMILY	Carotenoids
CAS NUMBER	[126-29-4]
EC#(EINECS)	NA
RTECS	FI0329970
EXTRACTED FROM	Chlorophyceae

### PREPARED CONCENTRATION

0.964 mg/L in Ethanol Volume 2.5 mL	Extinction Coefficient is 255 L/g/cm at 443 nm.	Be advised to use measured volumes of this standard solution before diluting to the desired concentration.
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#### **ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
HPLC – Purity	See below	>75%	96.8%
HPLC – Identity	See below	Conforms	Conforms

### **STORAGE CONDITIONS**

**STORAGE** -80 °C in a dry place away from light.

#### **EXPIRATION DATE** 01/2026 under the above conditions, if unopened.

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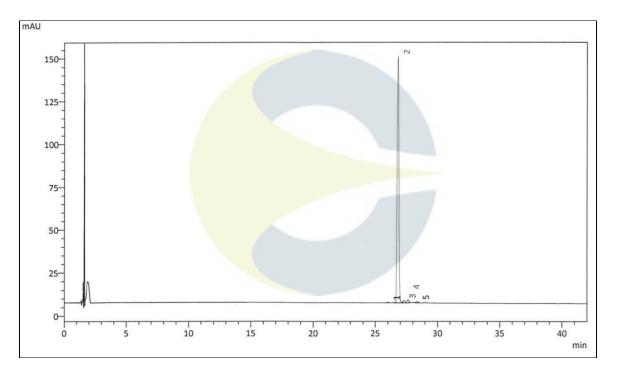
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ANALYTICAL CONDITIONS	
INSTRUMENT	HPLC/UV
COLUMN	Eclipse XDB-C8 150 x 4.6 mm, 3.5 µm particle size
MOBILE PHASE	A – Methanol/28 mM Tetrabutylammonium acetate, pH 6.5 (70/30), B – Methanol
	5% B increasing to 95% B over 22 minutes. Hold at 95% B for 7 minutes then return to 5% B over 2 minutes. Equilibrate at 5% B for 6.4 minutes.
COLUMN TEMP.	0°C
FLOW RATE	1.1 mL/minute
INJECTION VOL.	500 µL
INJECTION CONC.	28.5% standard:71.5% Tetrabutylammonium acetate
DETECTION	450 nm

## HPLC CHROMATOGRAM OF VIOLAXANTHIN



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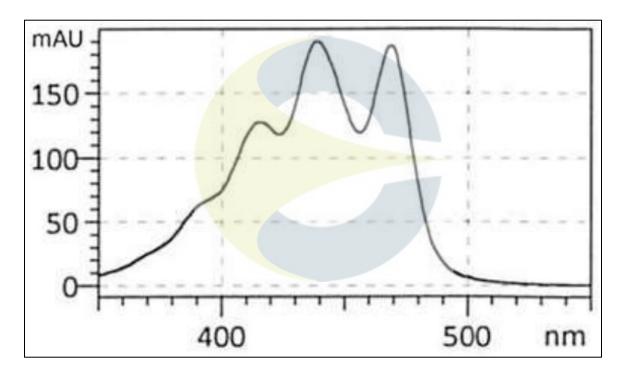
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## UV SPECTRUM AT RT = 26.8 MINUTES



## **REVISION HISTORY**

Revision HistoryDate of RevisionDocument/Changes0001/20/2023New report

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