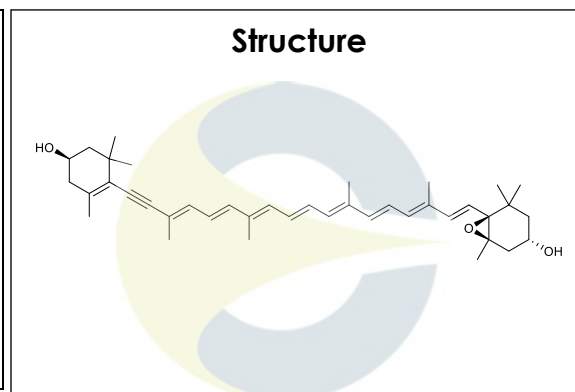


**Certificate of Analysis**

For Laboratory Use Only

<b>PRODUCT NAME</b>	Diadinoxanthin
<b>PART NUMBER</b>	00004004
<b>STANDARD TYPE</b>	Analytical Standard (AS)
<b>LOT NUMBER</b>	00004004-124
<b>REPORT NUMBER</b>	CDXA-RSS-9649-00
<b>DATE OF SAMPLE</b>	02/02/2022
<b>DATE OF REPORT</b>	02/08/2022



<b>CHEMICAL NAMES</b>	(3S,3'R,5R,6S)-7',8'-Didehydro-5,6-epoxy-5,6-dihydro-β,β-carotene-3,3'-diol; Diadinoxanthin A
<b>CHEMICAL FORMULA</b>	C <sub>40</sub> H <sub>54</sub> O <sub>3</sub>
<b>MOLECULAR WEIGHT (MW)</b>	582.85
<b>CHEMICAL FAMILY</b>	Carotenoids
<b>CAS NUMBER</b>	[18457-54-0]
<b>EC#(EINECS)</b>	NA
<b>RTECS</b>	NA

**PREPARED CONCENTRATION**

0.690 mg/L in Ethanol Volume 2.5 mL	Extinction Coefficient is 262 L/g/cm at 446 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%	99.2%
HPLC – Identity	See below	Conforms	Conforms

**STORAGE CONDITIONS**

<b>STORAGE</b>	-80 °C in a dry place.
<b>EXPIRATION DATE</b>	02/2025 under the above conditions.

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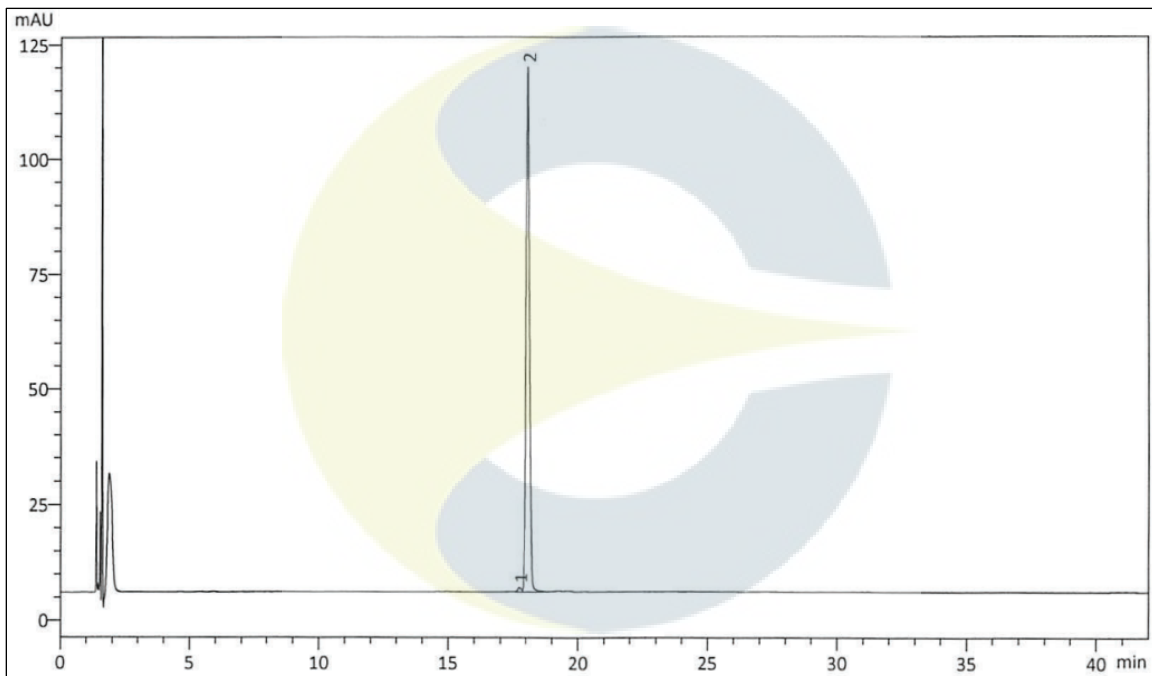
## Certificate of Analysis

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### ANALYTICAL CONDITIONS

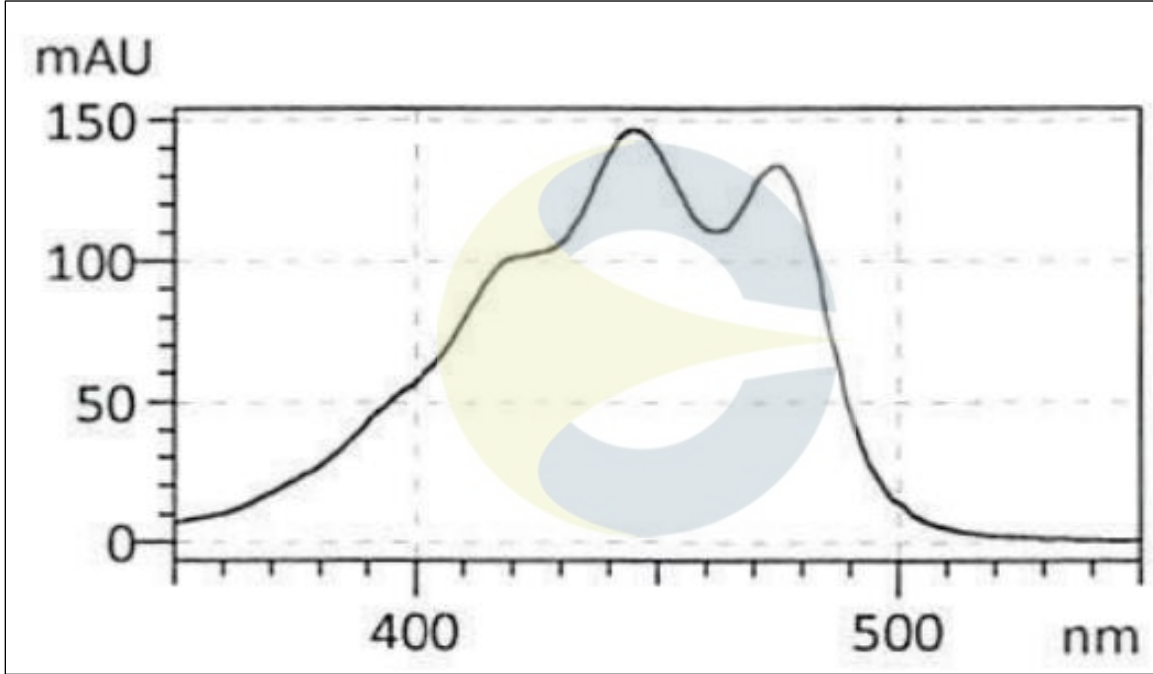
<b>INSTRUMENT</b>	HPLC/UV
<b>COLUMN</b>	Eclipse XDB-C8 150 x 4.6 mm, 3.5 µm particle size
<b>INJECTION VOL.</b>	500 µL
<b>INJECTION CONC.</b>	28.5% standard : 71.5% Tetrabutylammonium acetate solution
<b>DETECTION</b>	450 nm

### HPLC CHROMATOGRAM OF DIADINOXANTHIN



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**UV SPECTRUM AT 18.1 MINUTES**



**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
01	02/08/2022	New report

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