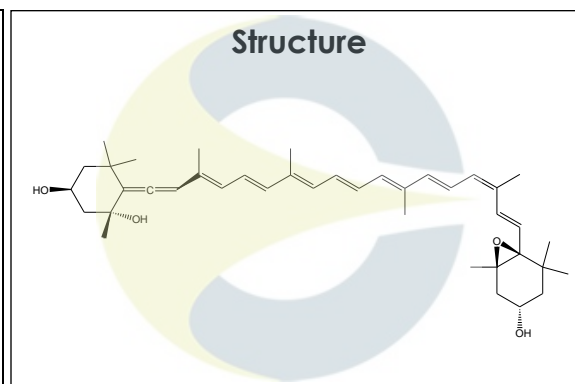


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PRODUCT NAME	Neoxanthin
PART NUMBER	00014288
STANDARD TYPE	Analytical Standard (AS)
LOT NUMBER	00014288-129
REPORT NUMBER	CDXA-RSS-10047-00
DATE OF SAMPLE	01/17/2023
DATE OF REPORT	01/23/2023



CHEMICAL NAMES	(3S,3'S,5R,5'R,6R,6'S,9'-cis)-6,7-didehydro-5',6'-epoxy-5',6'-dihydro-β,β-Carotene-3,3',5(6H)-triol; Foliaxanthin; 9-cis-Neoxanthin
CHEMICAL FORMULA	C ₄₀ H ₅₆ O ₄
MOLECULAR WEIGHT (MW)	600.87
CHEMICAL FAMILY	Carotenoids
CAS NUMBER	[14660-91-4]
EC#(EINECS)	NA
RTECS	NA
EXTRACTED FROM	Chlorophyceae

PREPARED CONCENTRATION

0.831 mg/L in Ethanol Volume 2.5 mL	Extinction Coefficient is 224.3 L/g/cm at 439 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%	98.5%
HPLC – Identity	See below	Conforms	Conforms

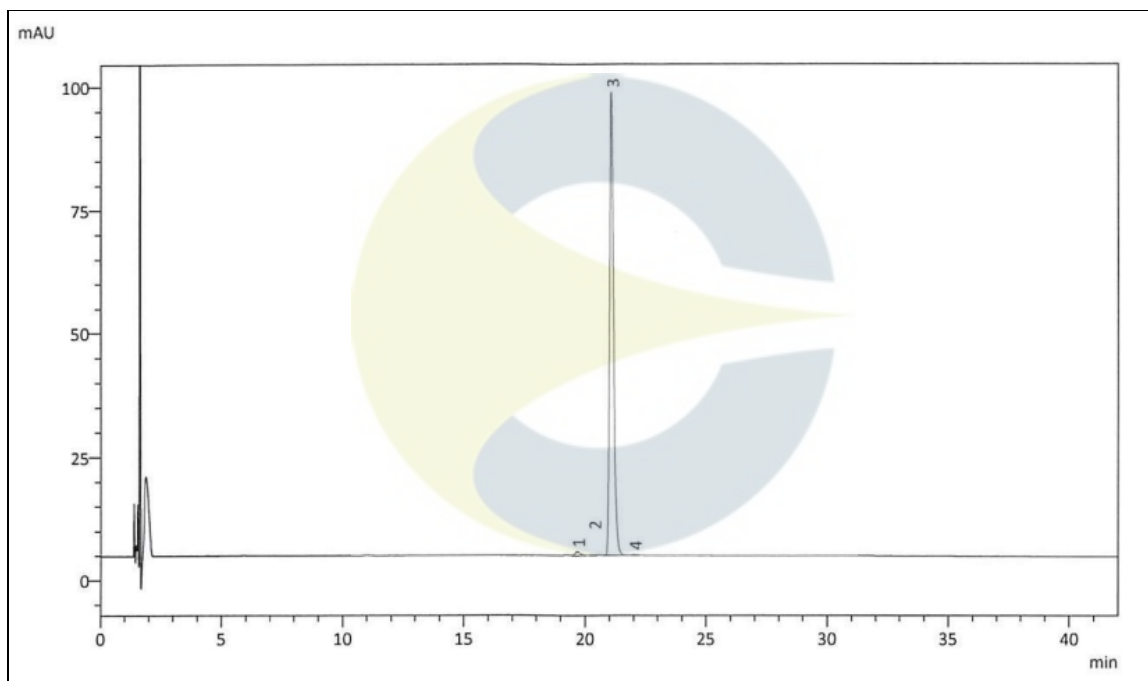
STORAGE CONDITIONS

STORAGE	-80 °C in a dry place, away from light.
EXPIRATION DATE	01/2026 under the above conditions, if unopened.

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ANALYTICAL CONDITIONS

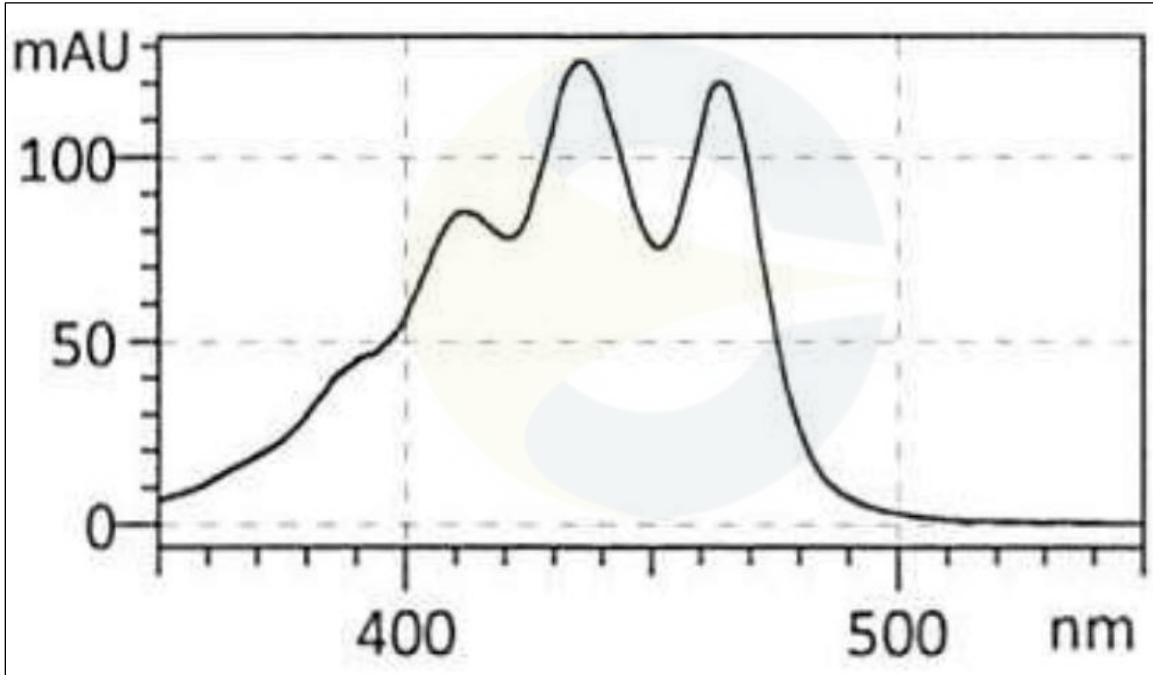
INSTRUMENT	HPLC/UV
COLUMN	Eclipse XDB-C8 150 x 4.6 mm, 3.5 µm particle size
MOBILE PHASE	A – Methanol/28 mM Tetrabutylammonium acetate (70/30), B – Methanol; 5% B increasing to 95% B over 22 minutes. Hold at 95% B for 7 minutes then return to 5% B over 2 minutes. Re-equilibrate at 5% B for 5 minutes.
COLUMN TEMP.	60 °C
FLOW RATE	1.0 mL/min
INJECTION VOL.	500 µL
INJECTION CONC.	28.5% standard: 71.5% Tetrabutylammonium acetate
DETECTION	450 nm

HPLC CHROMATOGRAM OF NEOXANTHIN


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UV SPECTRUM AT RT = 21.1 MINUTES



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	01/23/2023	New report

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