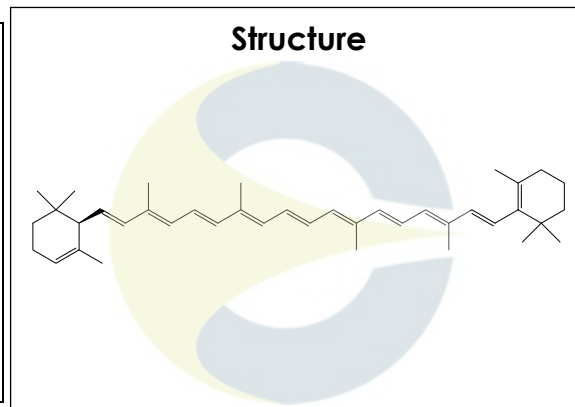


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PRODUCT NAME	alpha-Carotene
PART NUMBER	00003205
STANDARD TYPE	Analytical Standard (AS)
LOT NUMBER	00003205-135
REPORT NUMBER	CDXA-RSS-9641-00
DATE OF SAMPLE	02/02/2022
DATE OF REPORT	02/04/2022



CHEMICAL NAMES	(all-E)-1,1'-(3,7,12,16-Tetramethyl-1,3,5,7,9,11,13,15,17-octadecanonaene-1,18-diyl)bis[2,6,6-trimethylcyclohexene]; β,β -Carotene; <i>all-trans</i> - β -Carotene
CHEMICAL FORMULA	C ₄₀ H ₅₆
MOLECULAR WEIGHT (MW)	536.87
CHEMICAL FAMILY	Carotenoids
CAS NUMBER	[7488-99-5]
EC#(EINECS)	N/A
RTECS	N/A

PREPARED CONCENTRATION

0.718 mg/L in Acetone Volume 2.5 mL	Extinction Coefficient is 270 L/g/cm at 448 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%	92.2%
HPLC – Identity	See below	Conforms	Conforms

STORAGE CONDITIONS

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

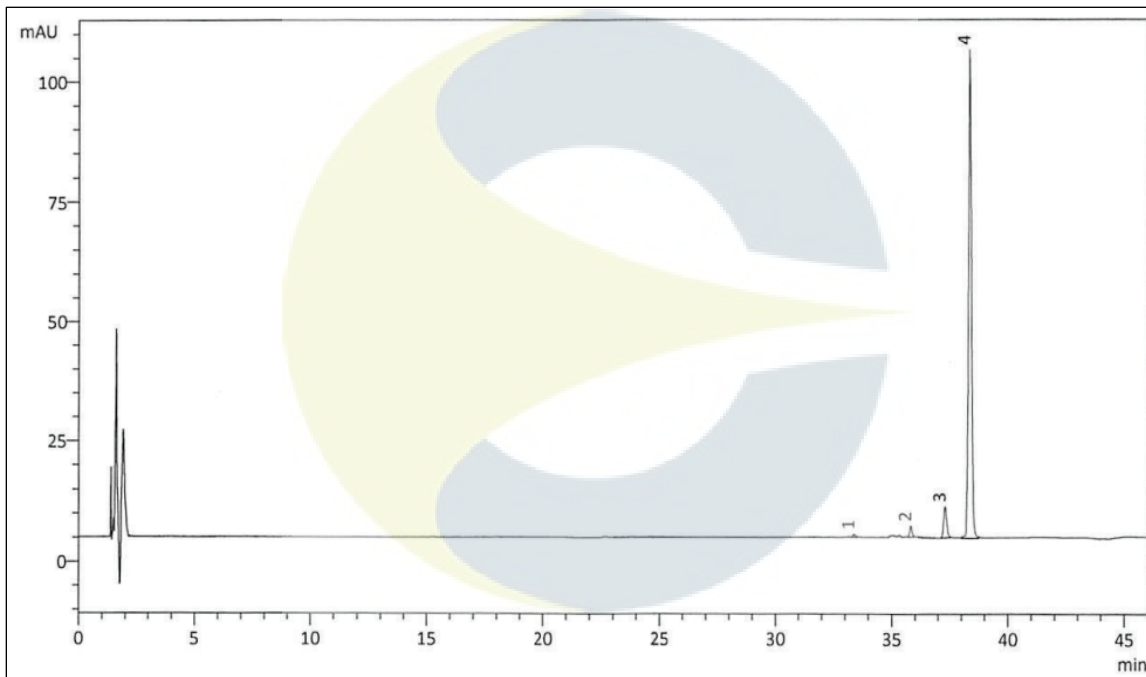
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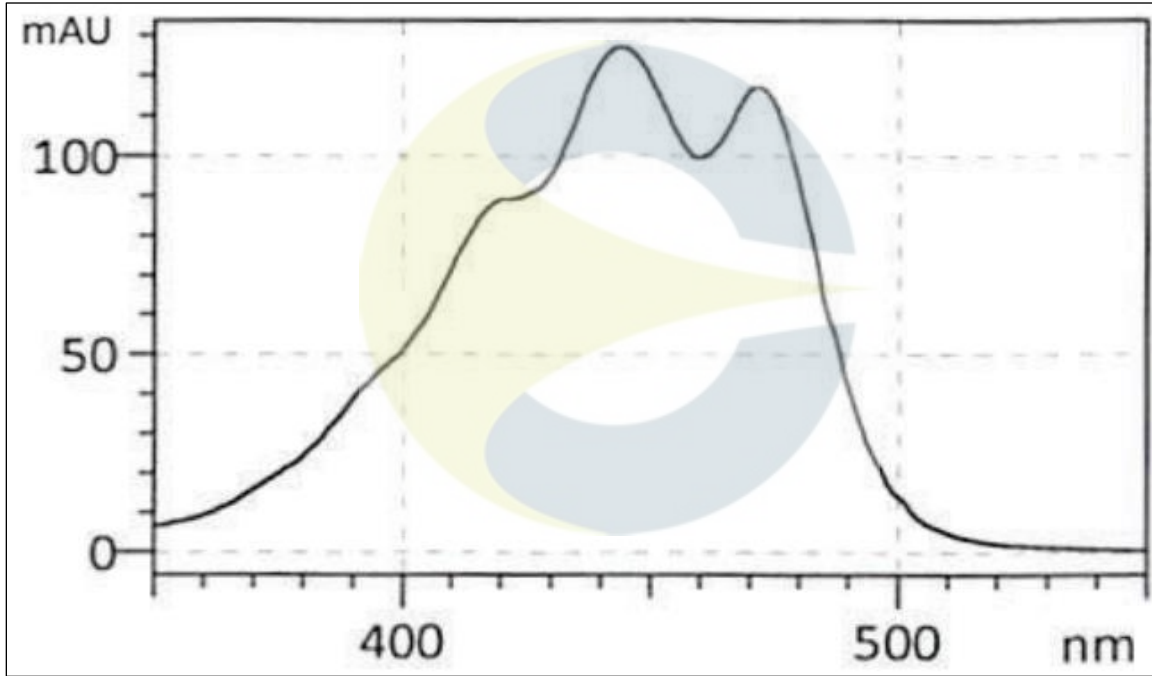
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ANALYTICAL CONDITIONS

INSTRUMENT	HPLC/UV-VIS
COLUMN	Agilent Eclipse XDB-C8 150 x 4.60 mm, 3.5 µm particle size
MOBILE PHASE	A – (70:30) Methanol:28 mM Tetrabutylammonium acetate, pH 6.5 B – Methanol
FLOW RATE	1.0 mL/minute
INJECTION VOL.	500 µL
INJECTION CONC.	28.5% standard:71.5% Tetrabutylammonium acetate
DETECTION	450 nm

HPLC CHROMATOGRAM OF ALPHA-CAROTENE

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UV SPECTRUM AT 38.4 MINUTES

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	02/04/2022	New report

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