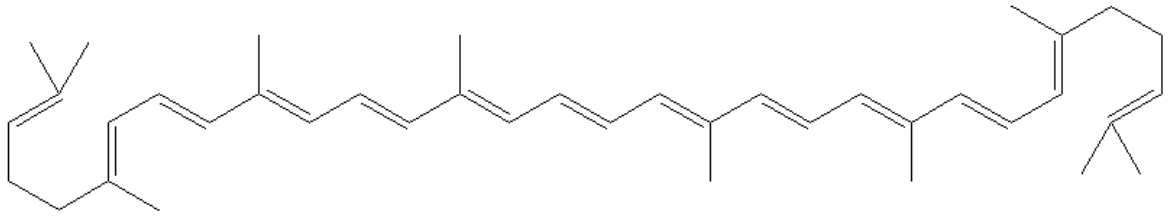
461 Danbury Rd. Suite 10
New Milford, CT 06776
Phone: (860) 799 5356
info@plantaanalytica.com
www.plantaanalytica.com

Certificate of Analysis

Product Information



PRODUCT	**Lycopene**
BATCH #	048-058-700
ASSAY METHOD	HPLC-UV, MS, 1H-NMR, 13C-NMR, Melting Point
REPORT DATE	2/6/2023
CHEMICAL NAME	(6E,8E,10E,12E,14E,16E,18E,20E,22E,24E,26E)-2,6,10,14,19,23,27,31-octamethyldotriaconta-2,6,8,10,12,14,16,18,20,22,24,26,30-tridecaene
SMILES STRUCTURE	CC(=CCCC(=CC=CC(=CC=CC(=CC=CC=C(C)C=CC=C(C)C=CC=C(C)CCC=C(C)C)C)C)C)C
OTHER NAMES	all-trans-Lycopene
CHEMICAL FORMULA	$C_{40}H_{56}$
MOLECULAR WEIGHT	536.9 g/mol
CAS REG. #	502-65-8
STORAGE	<-70 degrees C; dark; N_2 preferred
EXPIRATION DATE	2023-12-09
NOTES	Sample should be stored under N_2 (preferred) or in vacuo. Impurity peaks observed in HPLC analysis are likely to be products of on-column degradation, however limitations of analysis cannot confirm this claim. Reported purity is calculated with early eluting peaks as impurities. Melting point reported ranges from 172-175°C

Analytical Data

TEST	METHOD	SPECIFICATION	RESULT
HPLC-UV	472 nm	>95%	98.5%
MS	APCI Negative	535.4 ([M-H]$^-$)	535.5 ([M-H]$^-$)
Melting Point		172-175°C	172-172.5°C
Appearance	Dark red crystalline powder		
Adjusted Purity	98.5%		

The producer certifies that this reference material meets the specifications stated in this certificate until the expiration date, provided it is stored unopened at the recommended conditions. All analytical data is prepared and stored following GLP guidelines.

CERTIFIED BY	CERTIFIED TITLE	CERTIFIED ON	SIGNATURE
Vitold Glinski	CEO	12/9/2022	

Intended Use
This reference material is intended for laboratory use in analytical applications and as a quality control standard.

Safety
Proper precautions should be observed while handling, as defined in the Materials Safety Data Sheet (MSDS).

Storage
The product should be stored in the original packaging, sealed, and in the conditions dedicated in this certificate