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Certificate of Analysis

Product Name: Alpha-Carotene

Other Name: R(+)-alpha-Carotene

Batch No.: 15031713

Reported Date: 2015-03-17

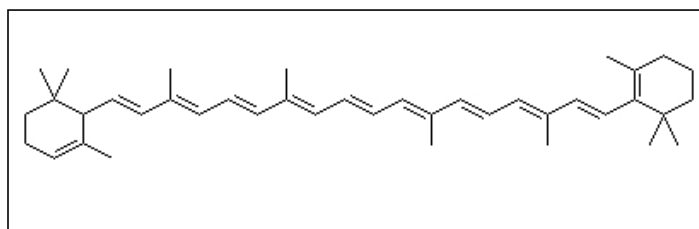
CAS Number: 7488-99-5

Mol. Formula: C₄₀H₅₆

Mol. Weight: 536.882

Identification Method: Mass, NMR

Analysis Method of Purity: HPLC, PDA



Analytical result:

Test	Specification	Results
Appearance	Purple crystal	Purple crystal
Loss on drying	<3.0%	0.9%
Purity (HPLC, 450nm)	≥90.0%	91.66%

Storage Condition:

Storage: -20℃, protected from light, keep package airproofed when not in use.

Expiration: March 16th, 2017. Under conditions list above.

QC: *Meng Pan*

Date: 2015-03-17

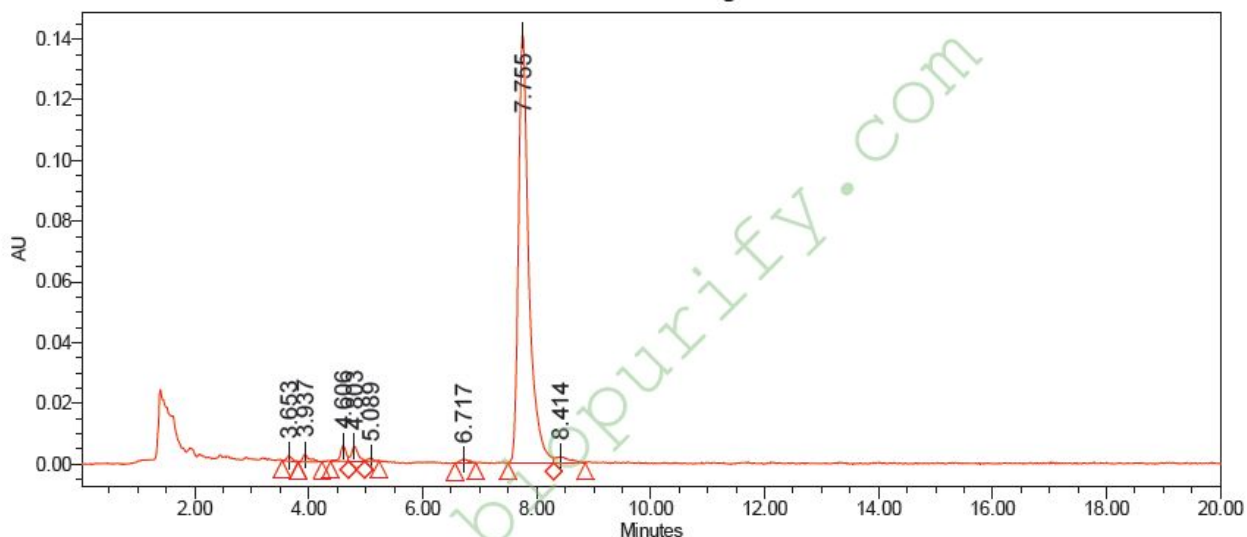
QA: *Lianglei Zhang*

Date: 2015-03-17

SAMPLE INFORMATION

Sample Name:	α Carotene 15031713	Acquired By:	panmeng
Sample Type:	Unknown	Sample Set Name:	
Vial:	1:A,4	Acq. Method Set:	α Carotene
Injection #:	1	Processing Method:	Samples 3
Injection Volume:	10.00 μ l	Channel Name:	450.0nm
Run Time:	20.0 Minutes	Proc. Chnl. Descr.:	PDA 450.0 nm
Date Acquired:	2015-3-17 16:34:19 CST		
Date Processed:	2015-3-17 17:02:14 CST		

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area	% Area	USP Plate Count	USP Resolution
1		3.653	11882	0.61	6527.17	
2		3.937	21087	1.09	11205.39	1.42
3		4.606	35690	1.84	11302.64	3.64
4		4.803	38721	1.99	9657.42	1.06
5		5.089	5973	0.31	14767.78	1.47
6		6.717	12716	0.65	11208.25	7.69
7		7.755	1779702	91.66	10263.21	3.72
8		8.414	35902	1.85		2.05