

Heliae Development

Person(s) Requesting Services:	Melissa Spencer
Report Generated On - Date:	8/12/2016
Analyst:	Heasoon Park
Authorizing Personnel:	David Asante
Purchase Order #:	Not Provided

Track No. 2016-1151

Astaxanthin Optical Isomers

CTI#	Matrix	Sample ID or Description	Lot or Batch#	3S,3'S Astaxanthin	3R,3'S Astaxanthin	3R,3'R Astaxanthin	Astaxanthin Source
				% of Astaxanthin			
1	Oil	Oleoresin Oil	A02HG160128-1	99.3	0.7	nd	Isomer distribution indicates Haematococcus pluvialis source
2	Oil	Oleoresin Oil	A02HG160128-2	99.4	0.6	nd	Isomer distribution indicates Haematococcus pluvialis source
3	Oil	Oleoresin Oil	A02HG160707-1	99.6	0.4	nd	Isomer distribution indicates Haematococcus pluvialis source

Notes:

"nd" = none detected

Detection Limit = 0.2 %

Method Reference:

In-House HPLC SS-05B Astaxanthin

CTI warrants the results of analysis for samples as received. Liability is limited to reanalysis of the samples.

Signature of Authorized Personnel: David Asante

Approved Date: 8/12/2016

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Contact our laboratory for more information about these assays: info@crafttechnologies.com

