

Certificate of Analysis

Haematococcus algae meal (NatuRose)

Sample ID : AX01089R

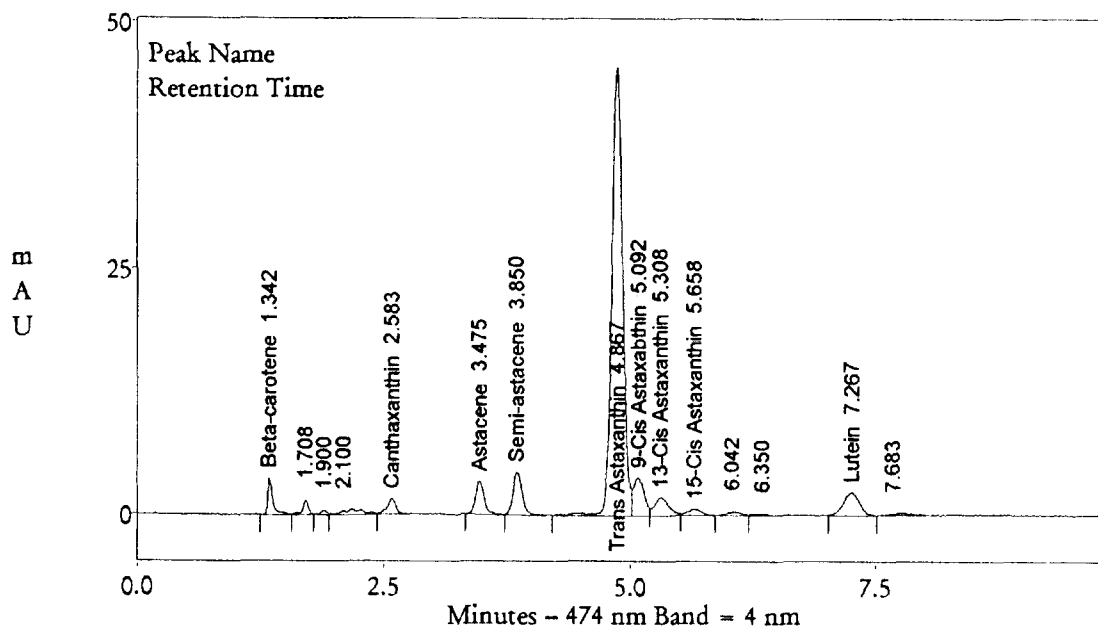
Channel A Results -- PDA Channel 1, 474 nm, 4 nm Band

Peak Name	Time	Area	% of Area	Percent
Beta-carotene	1.342	14034	2.6	0.039
Canthaxanthin	2.583	10163	1.9	0.030
Astacene	3.475	21291	3.9	0.055
Semi-astacene	3.850	29497	5.4	0.075
Trans Astaxanthin	4.867	355507	65.4	0.843
9-Cis Astaxanthin	5.092	29708	5.5	0.085
13-Cis Astaxanthin	5.308	19205	3.5	0.073
15-Cis Astaxanthin	5.658	7441	1.4	0.018
Lutein	7.267	27729	5.1	0.081

Channel A Group Results -- PDA Channel 1, 474 nm, 4 nm Band

Peak Name	Time	Area	% of Area	Percent
Total Astaxanthin		411861	75.8	1.019

c:\nouveau\chrom\rorestab\rmoilstb\powder\d222 - Channel A, PDA Channel 1



Analyzed by: Margie Thomason (Research Scientist)

Acquired : Apr 23, 1999 16:15:02

Margie Thomason

Certificate of Analysis

Haematococcus algae meal (NatuRose)

Sample ID : AX01308

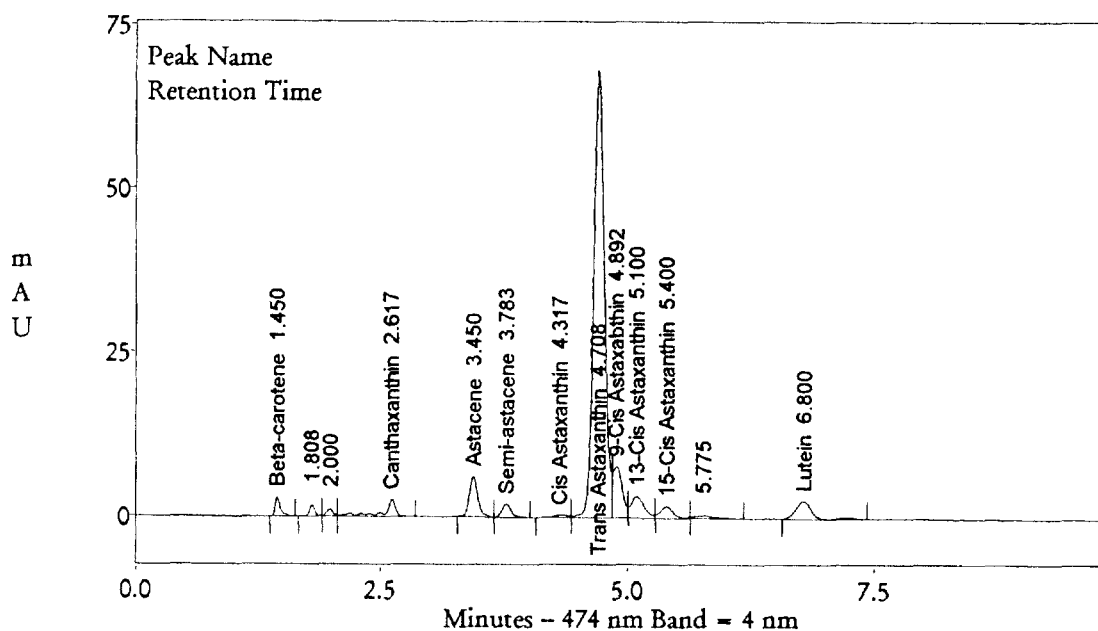
Channel A Results -- PDA Channel 1, 474 nm, 4 nm Band

Peak Name	Time	Area	% of Area	Percent
Beta-carotene	1.450	11174	1.5	0.032
Canthaxanthin	2.617	23782	3.1	0.075
Astacene	3.450	36766	4.8	0.099
Semi-astacene	3.783	13757	1.8	0.037
Cis Astaxanthin	4.317	4842	0.6	0.012
Trans Astaxanthin	4.708	518501	68.1	1.291
9-Cis Astaxanthin	4.892	51180	6.7	0.154
13-Cis Astaxanthin	5.100	31590	4.2	0.126
15-Cis Astaxanthin	5.400	17478	2.3	0.043
Lutein	6.800	32595	4.3	0.101

Channel A Group Results -- PDA Channel 1, 474 nm, 4 nm Band

Peak Name	Time	Area	% of Area	Percent
Total Astaxanthin		623591	81.9	1.626

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Analyzed by: Margie Thomason (Research Scientist) *Margie Thomason*
 Acquired : Apr 22, 1999 15:10:05

Certificate of Analysis

Haematococcus algae meal (NatuRose)

Sample ID : AXM04299R

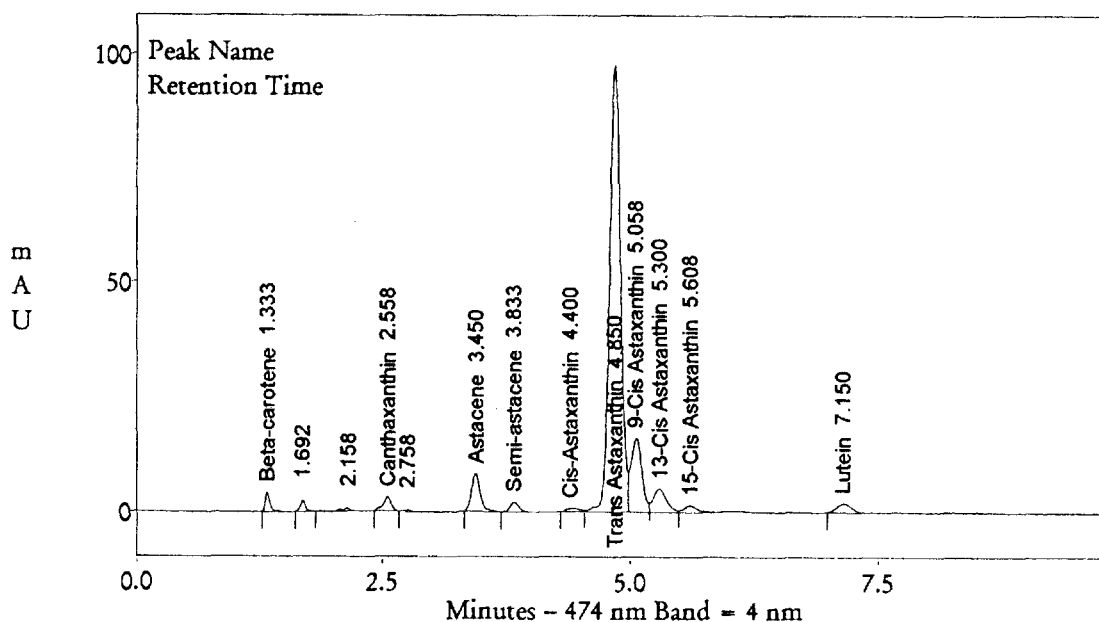
Channel A Results -- PDA Channel 1, 474 nm, 4 nm Band

Peak Name	Time	Area	% of Area	Percent
Beta-carotene	1.333	14417	1.3	0.035
Canthaxanthin	2.558	18056	1.7	0.048
Astacene	3.450	51350	4.7	0.117
Semi-astacene	3.833	14223	1.3	0.032
Cis-Astaxanthin	4.400	7597	0.7	0.017
Trans Astaxanthin	4.850	752635	69.6	1.704
9-Cis Astaxanthin	5.058	123604	11.4	0.335
13-Cis Astaxanthin	5.300	47647	4.4	0.169
15-Cis Astaxanthin	5.608	14201	1.3	0.032
Lutein	7.150	21507	2.0	0.056

Channel A Group Results -- PDA Channel 1, 474 nm, 4 nm Band

Peak Name	Time	Area	% of Area	Percent
Total Astaxanthin		945684	87.4	2.257

c:\nouveau\chrom\axlots\rosemary\axm04299\al1 - Channel A, PDA Channel 1



Analyzed by: Margie Thomason (Research Scientist)
 Acquired : Apr 30, 1999 14:26:05

Margie Thomason