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Analytical Comparison of *Haematococcus* Algae Raw Material and Extract

Peak	Fatty Acid		CO_2 Extract[1] % of total FA	Algae[2] % of total FA
1	12:0	Lauric	0.07	0.05
2	13:0	Tridecanoic	0.10	0.09
3	14:0	Myristic	0.51	0.52
4	15:0	Pentadecanoic	0.03	0.03
5	16:0	Palmitic	12.21	13.14
6	16:1 n-7	*cis*-9-Palmitoleic	0.32	0.24
7	17:0	Heptadecanoic	0.11	0.10
8	17:1	*cis*-10-Heptadecenoic	1.87	1.76
9	18:0	Stearic	0.79	0.77
10	18:1 n-9 *c/t*	*cis*-9-Oleic and/or *trans*-9-Elaidic	24.14	24.37
11	18:2 n-6 *c/t*	*cis*-9,12-Linoleic and/or *trans*-9,12-Linolelaidic	30.68	30.30
12	20:0	Arachidic	1.77	1.86
13	18:3 n-6	γ-Linolenic	14.83	14.15
14	20:1	*cis*-11-Eicosenoic	0.25	0.26
15	18:3 n-3	Linolenic	0.18	0.18
16	21:0	Heneicosanoic	1.65	1.15
17	20:2	*cis*-11,14-Eicosadienoic	0.48	0.53
18	22:0	Behenic	0.06	0.06
19	20:3 n-6	*cis*-8,11,14-Eicosatrienoic	1.34	1.40
20	22:1 n-9	*cis*-13-Erucic	0.06	0.07
21	20:3 n-3	*cis*-11,14,17-Eicosatrienoic	8.37	8.81
22	20:4 n-6	*cis*-5,8,11,14-Arachidonic	0.12	0.12
23	20:5 n-3	*cis*-5,8,11,14,17-Eicosapentaenoic	0.06	0.05

Cartenoid	CO_2 Extract[1]		Algae[2]	
	% w/w	% of total	% w/w	% of total
E-Astaxanthin	5.92	59	2.88	70
9Z-Astaxanthin	1.48	15	0.48	12
13Z-Astaxanthin	2.58	26	0.68	16
Total Astaxanthins	9.98	99	4.04	98
β-Carotene	0.03	0.3	0.01	0.2
Lutein	0.07	0.7	0.04	1.0
Canthaxanthin	0.03	0.3	0.01	0.2
Total Other Carotenoids	0.13	1.3	0.06	1.4
Total Carotenoids	10.1		4.1	

[1] *U.S. Nutra* manufactured product, Lot #: 031029-HAOR, lab ID: U0221-1

[2] *Algatechnologies* manufactured algae Lot #: AST10203