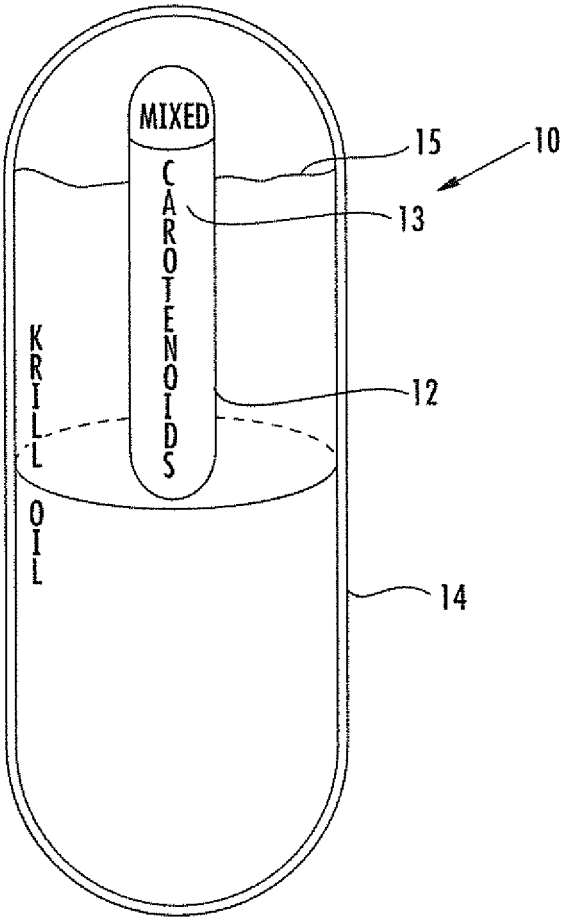


FIG. 1

THIRTEEN DAYS STABILITY DATA OF EXPERIMENTAL EHP BLENDS

DESCRIPTION OF VARIOUS FORMULATION BLENDS

	BLEND COMPONENTS									
	ZANTHIN			XANMAX					AKER KO	TOTAL WEIGHT (g)
SAMPLE	ADDED (g)	ASTA (%)	ASTA (g)	ADDED (g)	LUT (%)	LUT (g)	ZEA (%)	ZEA (g)	ADDED (g)	
3/1	1.90	6.07[a]	0.12	0.00	21.15	0.00	2.16	0.00	7.00	8.90
4/1	1.49	6.07	0.09	0.94	21.15	0.20	2.16	0.02	5.51	7.94
5/1	1.90	6.07	0.12	1.20	21.15	0.25	2.16	0.03	0.00	3.10

HPLC ANALYTICAL DATA FOR DAY 1 AND DAY 13 FOR EACH FORMULATION

	CALCULATED			FOUND (DAY 1)			FOUND (DAY 13)		
SAMPLE	ASTA (%)	LUT (%)	ZEA (%)	ASTA (%)	LUT (%)	ZEA (%)	ASTA (%)	LUT (%)	ZEA (%)
3/1	1.30	0	0	1.34	0	0	1.02	0	0
4/1	1.14	2.50	0.26	1.19	2.35	0.26	0.91	2.32	0.25
5/1	3.72	8.19	0.84	4.05	7.83	0.86	3.98	7.03	0.76

PERCENT REDUCTION OF ORIGINAL DAY 1 CAROTENOID LEVELS AS MEASURED BY HPLC

	FROM DAY 1 TO DAY 13		
SAMPLE	ASTA (%)	LUT (%)	ZEA (%)
3/1	23.9	0	0
4/1	23.5	1.3	3.8
5/1	1.7	10.2[b]	11.6[b]

FIG. 2

1. ZANTHIN USED IS: ZANTHIN 7%, LOT #100428 HAOR, → 6.07% Ax
2. SAMPLE 3/1 IS A MIXTURE OF ZANTHIN AND AKER KO 21.35 wt% ZANTHIN, →1.29% Ax
3. SAMPLE 4/1 IS A MIXTURE OF ZANTHIN, AKER KO, AND LUTEIN, 18.82 wt% ZANTHIN, →1.14% Ax
4. SAMPLE 5/1 IS A MIXTURE OF ZANTHIN AND LUTEIN, 61.29 wt% ZANTHIN →3.71% Ax

a. THIS ASSAY WAS OBTAINED BY RUNNING 7% ZANTHIN ON C_{30} COLUMN TOGETHER WITH DAY 1 SAMPLES. THEREFORE IT (BUT NOT THE CofA ASSAY) WAS USED FOR FURTHER CALCULATIONS.

b. ENORMOUSLY HIGH REDUCTION OF LUTEIN AND ZEAXANTHIN CONCENTRATIONS MAY BE DUE TO BAD BLEND UNIFORMITY. XANMAX SEDIMENT IS RATHER DIFFICULT TO EVENLY DISTRIBUTE IN THE ENTIRE VOLUME.

STABILITY ANALYTICAL REPORT

	ASTAXANTHIN (%)			LUTEIN (%)			ZEAXANTHIN (%)		
SAMPLE: LAB ID/LOT/NAME	DAY 0	DAY 12	% CHANGE	DAY 0	DAY 12	% CHANGE	DAY 0	DAY 12	% CHANGE
U2031-5/110113A/EYEPRO A	0.78	0.56	28.2	2.63	2.52	4.2	0.29	0.27	6.9
U2031-6/110113E/EYEPRO E	0.80	0.67	16.3	2.53	2.16	14.6	0.28	0.23	17.9
U2031-7/110114A/FLEXPRO A	0.54	0.40	25.9						
U2031-8/110114E/FLEXPRO E	0.57	0.55	3.5*						

DAY 12, 20° C

* INCONSISTENCY OF RESULTS MAY BE DUE TO INCONSISTENT VISCOSITY OF THE SAMPLE U2031-8

FIG. 3

STABILITY ANALYTICAL REPORT

SAMPLE: LAB ID/LOT/NAME	ASTAXANTHIN (%)			LUTEIN (%)			ZEAXANTHIN (%)		
	DAY 0	DAY 12	% CHANGE	DAY 0	DAY 12	% CHANGE	DAY 0	DAY 12	% CHANGE
U2031-1/110113A/EYEPRO A	0.78	0.12	84.6	2.63	2.44	7.2	0.29	0.28	3.4
U2031-2/110113E/EYEPRO E	0.80	0.50	37.5	2.53	2.24	11.5	0.28	0.24	14.3
U2031-3/110114A/FLEXPRO A	0.54	0.10	81.5						
U2031-4/110114E/FLEXPRO E	0.57	0.36	36.8						

DAY 12, 50° C

FIG. 4

ADDENDUM

SUMMARY OF CHANGES BY UV (AS ASTAXANTHIN)

		20° C		50° C	
SAMPLE	DAY 0	DAY 12	% CHANGE	DAY 12	% CHANGE
EYEPRO (AKER)	5.09	4.95	2.8	4.63	9.0
EYEPRO (ENZYMOTEC)	4.75	4.40	7.4	4.33	8.8
FLEXPRO (AKER)	0.93	0.91	2.2	0.81	12.9
FLEXPRO (ENZYMOTEC)	0.99	0.98	1.0	0.86	13.1

FIG. 5

ASTAXANTHIN STABILITY ANALYTICAL REPORT
DAY 26

20° C

	%ASSAY			CHANGES (% OF ASSAY REDUCTION)		
SAMPLE: LAB ID/LOT/NAME	DAY 0	DAY 12	DAY 26	DAYS 0-12	DAYS 12-26	DAYS 0-26
U2044-5/110113A/EYEPRO A	0.78	0.56	0.43	28.2	23.2	44.9
U2044-6/110113E/EYEPRO E	0.80	0.67	0.68	16.3	-1.5	15.0
A=AKER KRILL OIL						
E=ENZYMOTEC KRILL OIL						

50° C

	%ASSAY			CHANGES (% OF ASSAY REDUCTION)		
SAMPLE: LAB ID/LOT/NAME	DAY 0	DAY 12	DAY 26	DAYS 0-12	DAYS 12-26	DAYS 0-26
U2044-5/110113A/EYEPRO A	0.78	0.12	0.10	84.6	16.7	87.2
U2044-6/110113E/EYEPRO E	0.80	0.50	0.30	37.5	40.0	62.5
A=AKER KRILL OIL						
E=ENZYMOTEC KRILL OIL						

* QUANTIFICATION OF LUTEIN AND ZEAXANTHIN IS NOT DONE AT THIS POINT BECAUSE OF FORMATION OF A DENSE XANMAX CAKE ON THE BOTTOM OF STORAGE CONTAINERS AND PREDICTABLE INCONSISTENCY OF THE CORRESPONDING RESULTS THEREFORE.

FIG. 6

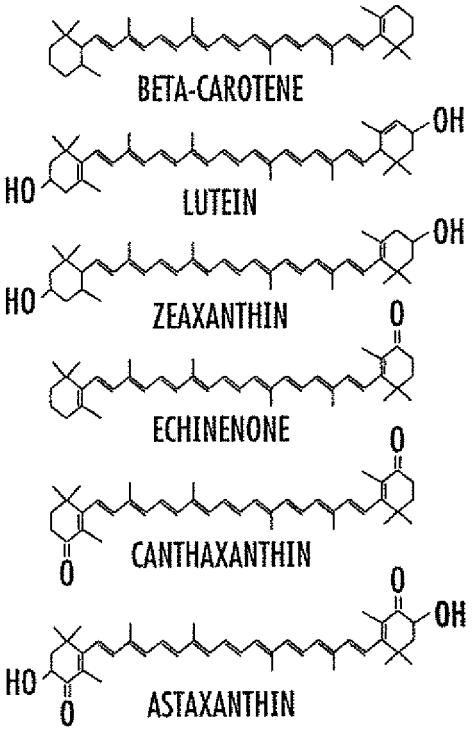

BETA-CAROTENE
HO
OH
LUTEIN
HO
OH
ZEAXANTHIN
O
ECHINENONE
O
O
CANTHAXANTHIN
O
HO
OH
O
ASTAXANTHIN

FIG. 7