

APPENDIX 1

Calibration Curve of Phospholipids-molybdenum Blue Complexes

Concentration/ppm	Abs 1	Abs 2	Average
20	0.050	0.053	0.052
30	0.080	0.078	0.079
40	0.105	0.107	0.106
50	0.155	0.158	0.157

Concentration of Phospholipids in SD, SW, UD and UW Palm Mesocarp oil at Different Stages of Ripeness

Ripening stages (weeks after anthesis)	Concentration / ppm			
	SD	SW	UD	UW
4	1,690	13,587	589	15,305
8	5,126	16,494	3,884	18,159
12	6,412	14,904	4,259	12,015
16	6,578	16,331	1,196	2,068
20	1,467	1,484	1,734	1,897

Antioxidant Properties of Reconstituted Mixture of Phospholipids, Carotene and Vitamin E

Sample	Sample Code	TEAC	FRAP
30 wt.% carotene	1	495.46	195.67
18 wt.% PL + 30 wt.% carotene	2	91.86	296.58
50 wt.% vitamin E	3	34.10	16.17
18 wt.% PL + 50 wt.% vitamin E	4	-199.43	157.00

APPENDIX 2
Calibration of Individual Phospholipid Standard

Amount /ug	PC	PE	PI	PA	PG	DPG	PS	LPE	LPC
13.28								2499655	
15.00									
16.96		5304102							1584513
18.32					1771732				
22.92							5595770		
27.60						3223408		7595747	
30.00				9989000					5370248
33.92		17473432			5000492				
35.00			15000632						
36.64									
38.20							8060961		
40.00			24050030	20006320				15130193	
41.44	15509543								
42.40		31607173							
45.80							10437085		
46.00					11113790	6388971			
50.00			35001030	30020136					
50.88		42829263							
53.12								27838112	
54.96									
58.50				40000000	16875801				
60.00			47002045				17245081		14763210
62.16	37100496								
66.40								40162705	
67.84		70095978							
73.60						14282208			
76.40							25001166		
80.00				62000000					
82.88	50751986								
84.80		99007909							
92.00									
103.60	73386467								
124.32	100667307								
165.76	171536771					18050149			31045552

APPENDIX 3

Concentration of DG, TG, MG, FFA, β -Sitosterol, Stigmasterol, Campesterol, Cholesterol and Squalene in SD, SW, UD and UW Palm Mesocarp Oil at Different Stages of Ripeness

	DG	TG	MG	FFA	β -sitosterol	Stigmasterol	Campesterol	Cholesterol	Squalene
SD4	3,230	2,895	1,452	5,142	5,348	1,006	943	229	125
SD8	1,986	413	1,732	2,257	1,380	243	259	80	60
SD12	3,459	1,509	1,577	1,956	1,648	604	326	315	207
SD16	20,552	23,588	1,650	142	8,833	2,992	4,248	827	1,671
SD20	21,554	954,500	58	2,998	394	76	330	30	455
SW4	3,130	931	2,376	1,958	1,831	347	338	85	67
SW8	1,833	660	610	841	1,175	205	222	76	25
SW12	2,679	988	709	1,000	998	263	220	357	136
SW16	22,272	17,675	870	48	5,796	2,110	3,048	3,352	903
SW20	22,569	955,500	145	810	397	74	366	8	438
UD4	3,576	1,143	907	4,411	2,773	544	545	140	94
UD8	796	168	443	1,120	601	116	124	38	31
UD12	2,210	1,366	300	843	1,175	318	234	295	211
UD16	11,500	6,464	316	48,946	6,298	2,484	3,709	1,336	1,002
UD20	14,553	502,000	2,648	461,123	120	21	91	37	248
UW4	5,892	3,968	653	1,303	2,314	444	412	102	77
UW8	2,061	856	299	708	890	158	179	48	32
UW12	1,895	584	1,426	898	786	206	178	127	116
UW16	12,794	5,481	157	54,133	5,352	2,177	2,938	3,395	890
UW20	12,814	323,000	3,509	637,822	141	29	110	38	316