

Supporting material S4

Table S1: ANOVA table for storage parameters: For storage conditions, each data set had 3 source of variation (factors) and therefore, a 3-way ANOVA analysis was used to study the data. As indicated in the table, in all the data set studied, interactions were significant (green highlights) and therefore, single factor main effects are not to be interpreted.

Response	Source of variation/ Factor	df	F-value	p-value
β-carotene in bulk oils	Carrier oil type	1	138.293	p<0.05
	Light/dark storage	1	536.614	p<0.05
	Storage days	5	12967.206	p<0.05
	Carrier oil type* Storage days	5	21.640	p<0.05
	Carrier oil type *Light/dark storage	1	36.361	p<0.05
	Light/dark storage* Storage days	5	55.645	p<0.05
	Carrier oil type* Light/dark storage *Storage days	5	9.773	p<0.05
β-carotene in emulsions	Carrier oil type	1	28.924	p<0.05
	Light/dark storage	1	856.141	p<0.05
	Storage days	5	3939.608	p<0.05
	Carrier oil type* Storage days	5	7.829	p<0.05
	Carrier oil type *Light/dark storage	1	8.202	p<0.05
	Light/dark storage* Storage days	5	96.978	p<0.05
	Carrier oil type* Light/dark storage *Storage days	5	18.170	p<0.05
L* of emulsions	Carrier oil type	1	1213.0	p<0.05
	Light/dark storage	1	7939.2	p<0.05
	Storage days	5	12008.9	p<0.05
	Carrier oil type* Storage days	5	453.3	p<0.05
	Carrier oil type *Light/dark storage	1	1126.5	p<0.05
	Light/dark storage* Storage days	5	908.4	p<0.05
	Carrier oil type* Light/dark storage *Storage days	5	454.8	p<0.05
a* of emulsions	Carrier oil type	1	1009.47	p<0.05
	Light/dark storage	1	5283.67	p<0.05
	Storage days	5	21166.03	p<0.05
	Carrier oil type* Storage days	5	171.76	p<0.05
	Carrier oil type *Light/dark storage	1	103.99	p<0.05
	Light/dark storage* Storage days	5	792.4	p<0.05
	Carrier oil type* Light/dark storage *Storage days	5	42.78	p<0.05
b*of emulsions	Carrier oil type	1	195.033	p<0.05
	Light/dark storage	1	42449.489	p<0.05

	Storage days	5	25955.849	p<0.05
	Carrier oil type* Storage days	5	76.193	p<0.05
	Carrier oil type *Light/dark storage	1	0.037	P>0.05
	Light/dark storage* Storage days	5	4660.410	p<0.05
	Carrier oil type* Light/dark storage *Storage days	5	102.963	p<0.05
TBARS: bulk oils	Carrier oil type	1	28.775	p<0.05
	Light/dark storage	1	0.215	p>0.05
	Storage days	5	33.762	p<0.05
	Carrier oil type* Storage days	5	2.751	p<0.05
	Carrier oil type *Light/dark storage	1	4.140	p<0.05
	Light/dark storage* Storage days	5	6.457	p<0.05
	Carrier oil type* Light/dark storage *Storage days	5	4.050	p<0.05
TBARS: emulsion	Carrier oil type	1	103.996	p<0.05
	Light/dark storage	1	28.433	p<0.05
	Storage days	5	214.379	p<0.05
	Carrier oil type* Storage days	5	23.342	p<0.05
	Carrier oil type *Light/dark storage	1	0.633	p>0.05
	Light/dark storage* Storage days	5	30.051	p<0.05
	Carrier oil type* Light/dark storage *Storage days	5	17.213	p<0.05

*[*indicates interaction between factors]*