

Table S2. The thermal degradation kinetics of lutein in oil bodies emulsions with different treatment.

Treatment group	Heating temperature (°C)	k (h ⁻¹)	R ²	t _{1/2} (h)	E _a (kJ/mol)	R ²
COB-S-0.5	60	0.0463	0.9995	14.97	17.55	0.9987
	75	0.0618	0.9973	11.22		
	90	0.0781	0.9783	8.88		
POB-S-0.5	60	0.0279	0.9921	24.84	30.36	0.9956
	75	0.0471	0.9844	14.72		
	90	0.0689	0.9961	10.06		
COB-H-0.5	60	0.0559	0.9953	12.40	11.93	0.9999
	75	0.0671	0.9956	10.33		
	90	0.0798	0.9933	8.69		
POB-H-0.5	60	0.0399	0.9875	17.37	22.02	0.9866
	75	0.0600	0.9980	11.55		
	90	0.0768	0.9740	9.03		
COB-U-0.5	60	0.0476	0.9729	14.56	19.33	0.9903
	75	0.0675	0.9773	10.27		
	90	0.0846	0.9959	8.19		
POB-U-0.5	60	0.0280	0.9910	24.76	32.48	0.9915
	75	0.0501	0.9884	13.84		
	90	0.0736	0.9992	9.42		

Notes: S: Stirring, H: Homogenization, U: Ultrasonication. Error bars indicate the standard deviation from triplicate tests. Different letters indicate significant differences ($p < 0.05$).