

## *Supplementary Material*

# **Co-encapsulation of curcumin and $\alpha$ -tocopherol in bicosome systems: physicochemical properties and biological activity**

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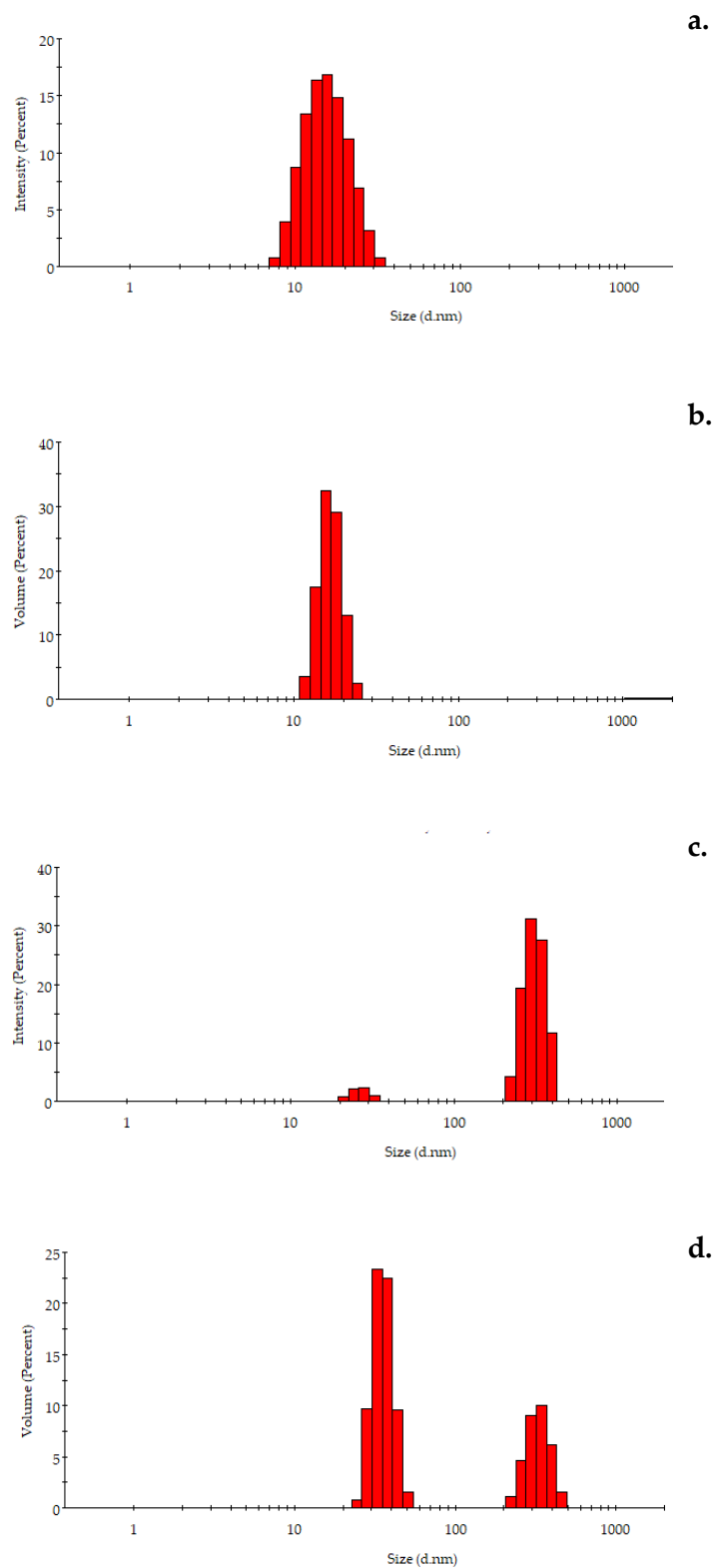
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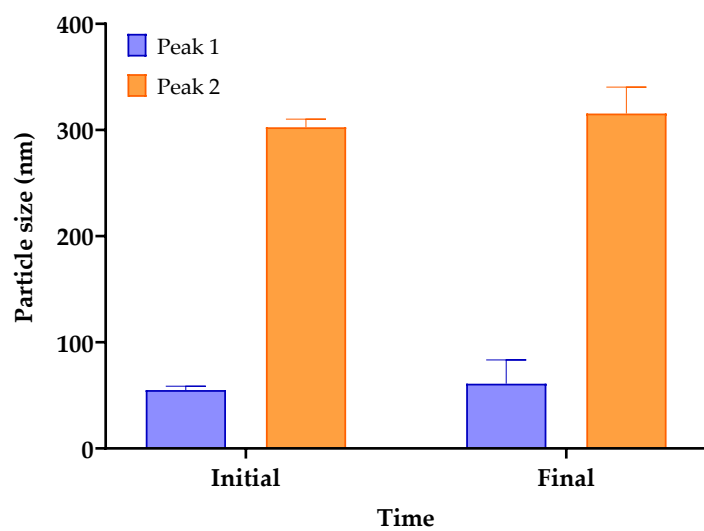
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**Table S1.** Particle size (nm) and intensity (%) of two peaks for cur/ $\alpha$ -toc-bicosomes (B<sub>A</sub> B<sub>B</sub> and B<sub>C</sub>). Each value represents the mean  $\pm$  standard deviation of at least 3 replicates. Different letters mean statistically significant differences with a p-value < 0.05.

Bicosome systems	Peak 1		Peak 2	
	Particle size (nm)	Intensity (%)	Particle size (nm)	Intensity (%)
B <sub>A</sub>	94 $\pm$ 7 <sup>a</sup>	17 $\pm$ 4 <sup>a,b</sup>	411 $\pm$ 7 <sup>a</sup>	74 $\pm$ 5 <sup>a,b</sup>
B <sub>B</sub>	67 $\pm$ 11 <sup>a</sup>	26 $\pm$ 1 <sup>a</sup>	327 $\pm$ 6 <sup>b</sup>	74 $\pm$ 1 <sup>b</sup>
B <sub>C</sub>	43 $\pm$ 3 <sup>b</sup>	19 $\pm$ 1 <sup>b</sup>	283 $\pm$ 17 <sup>c</sup>	86 $\pm$ 1 <sup>a</sup>



**Figure S1.** Histogram of the particle size distribution (nm). (a) cur/ $\alpha$ -toc-bicelles by intensity (%), (b) cur/ $\alpha$ -toc-bicelles by volume (%), (c) cur/ $\alpha$ -toc-bicosome by intensity (%), and (d) cur/ $\alpha$ -toc-bicosome by volume (%).



**Figure S2.** Physical stability of cur/α-toc-bicosome Bc formulation determined by particle size (nm) initial and after 90 days storage at 4 °C.