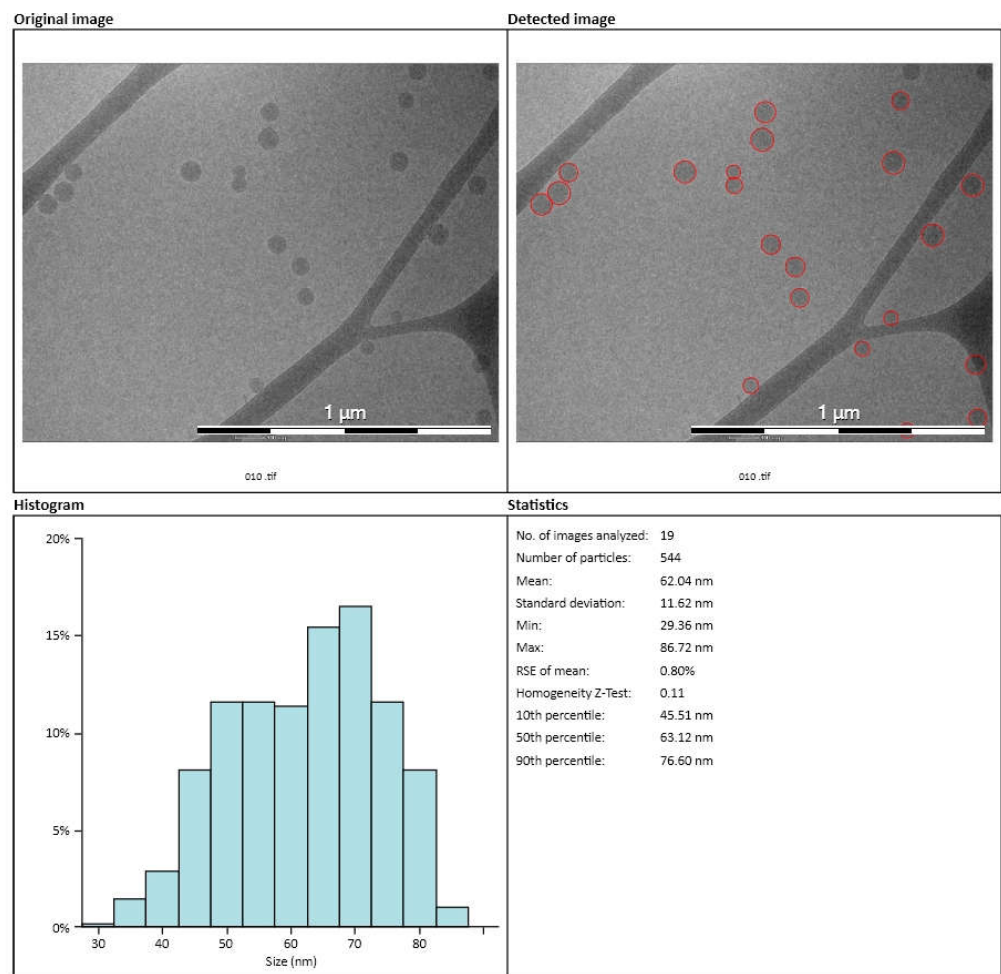


# Supplementary Materials: Quantitative Cryo-TEM Reveals New Structural Details of Doxil-Like PEGylated Liposomal Doxorubicin Formulation

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**Figure S1.** Representative original (A) and processed (B) cryo-TEM Images of standard polystyrene particles, (C) size distribution histogram.

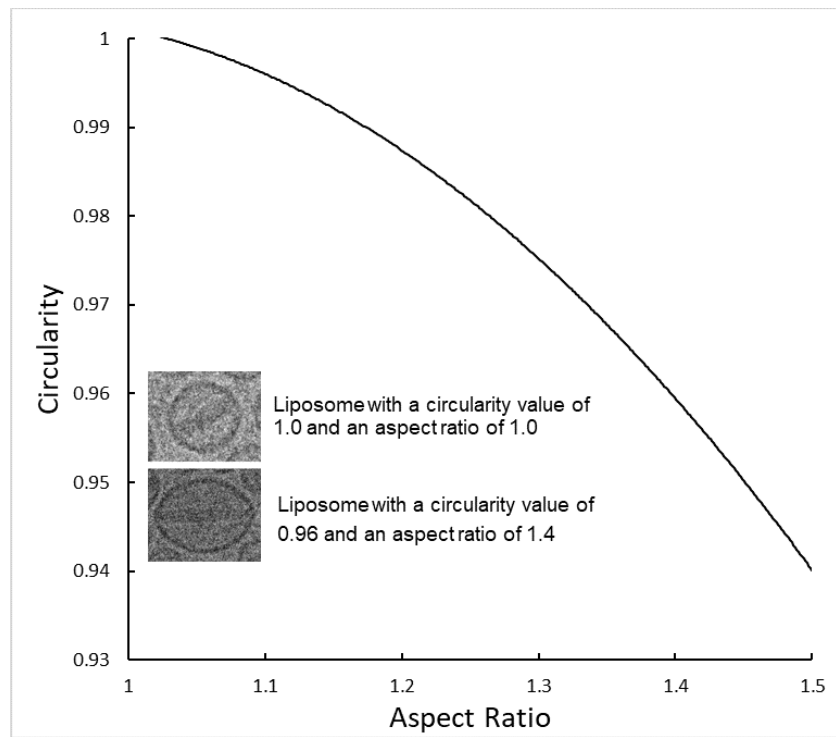


Figure 2. Circularity versus aspect ratio of an elliptical shape.

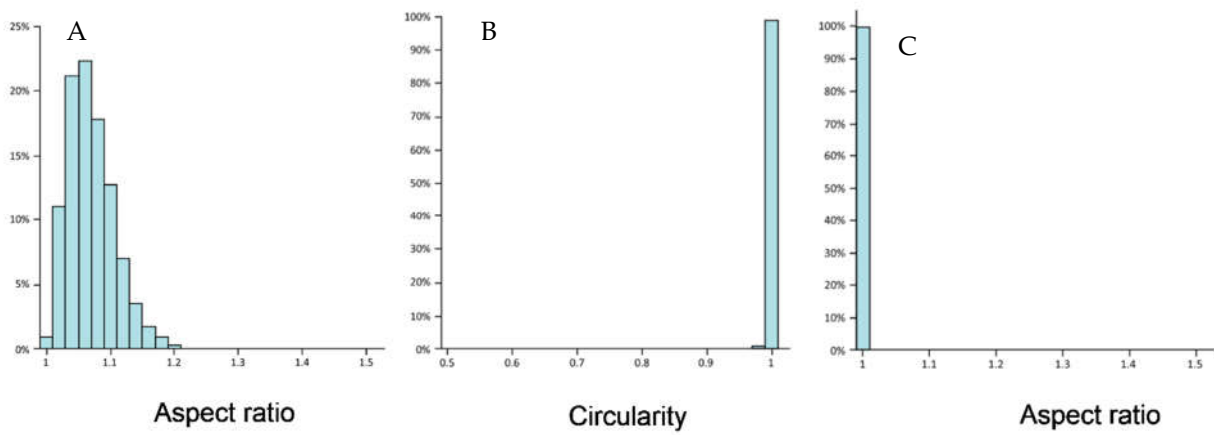
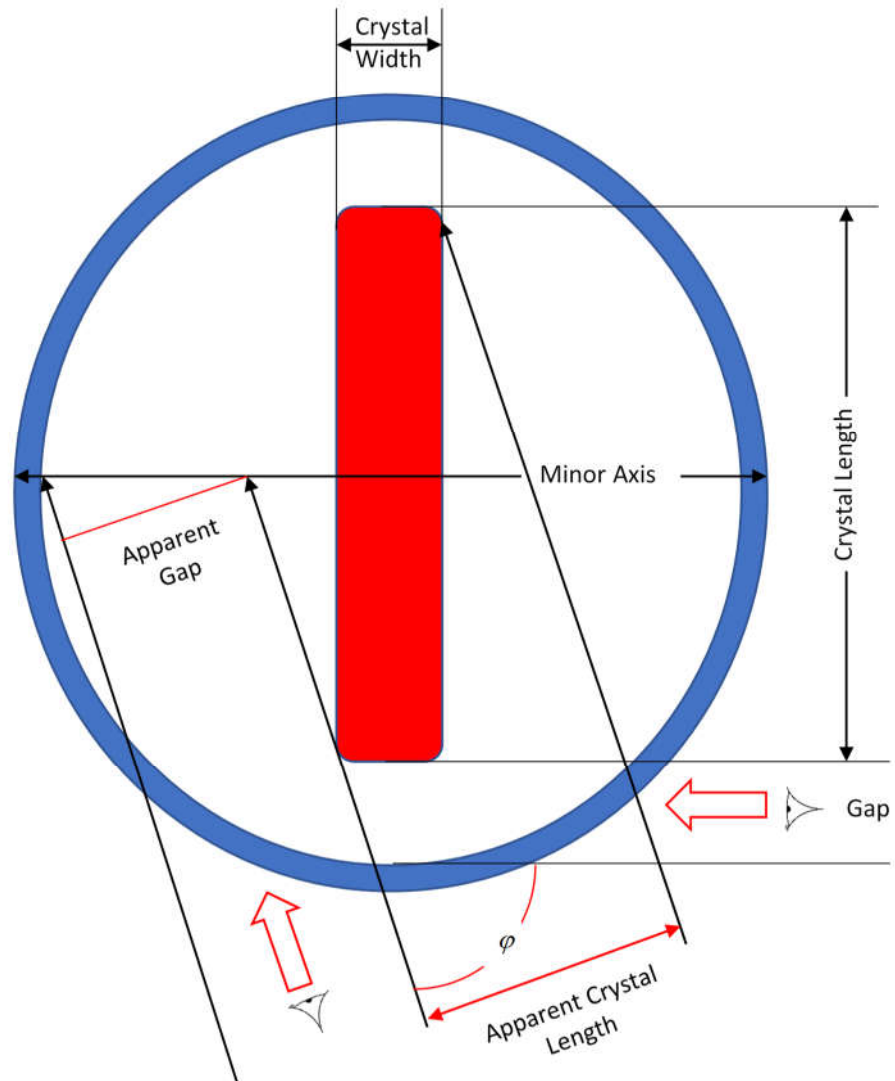


Figure S3. (A) and (B): aspect ratio and circularity of Doxil<sup>®</sup>-like liposomes, respectively; (C): aspect ratio of "empty" liposomes.

$$\text{Apparent Gap} = \frac{1}{2} \times (\text{Minor Axis} - \text{Membrane Thickness} - \text{Crystal Width} - \text{Crystal Length} \times \cot \varphi)$$

$$\text{Apparent Crystal Length} = \text{Crystal Length} \times \cos \varphi + \text{Crystal Width} \times \sin \varphi$$

where:  $\varphi$  – polar angle of the projection;



**Figure S4.** Apparent length and the distance between the crystal edge and the liposome membrane.