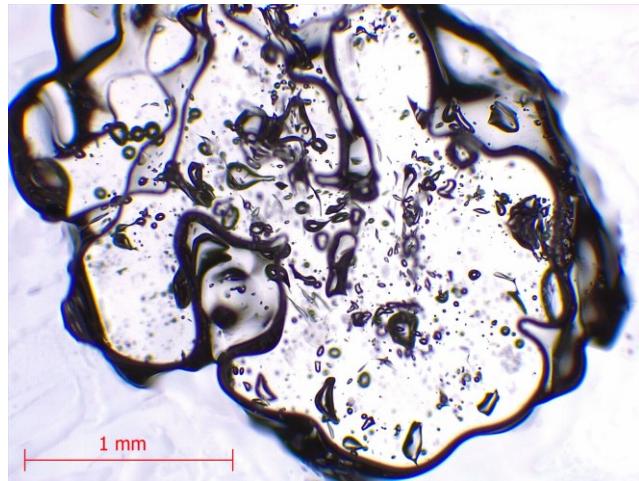
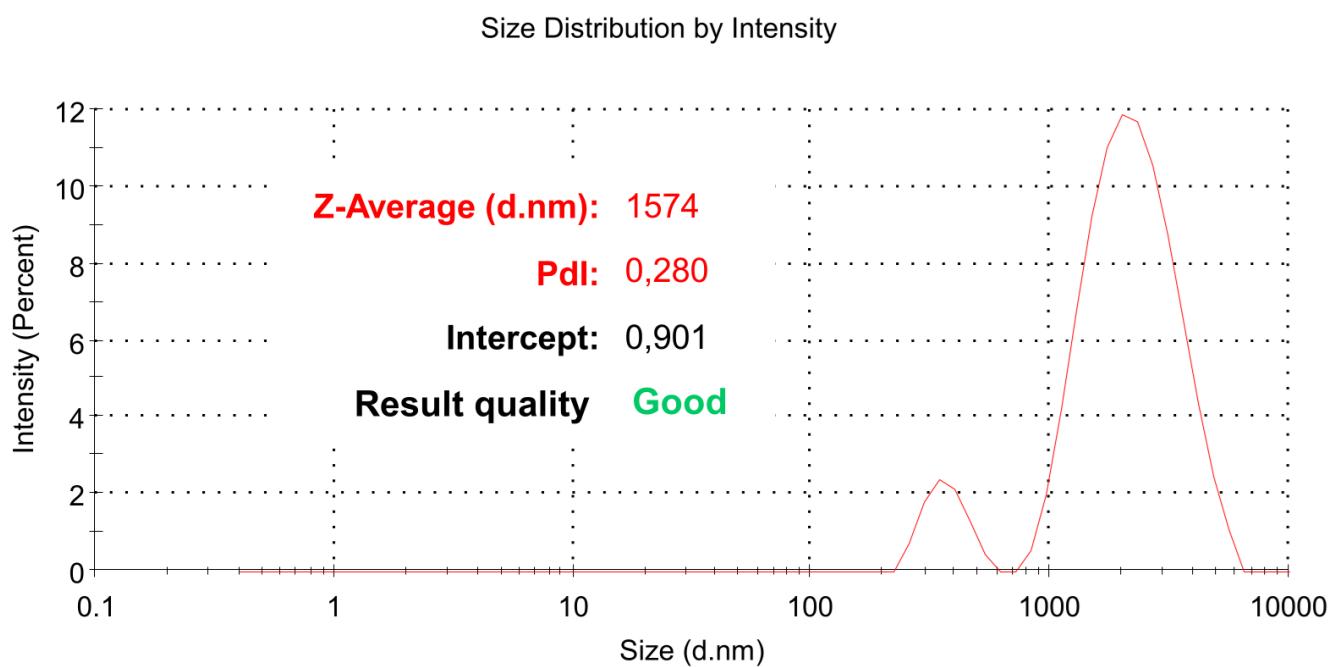


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Supplementary Materials

# Synthesized Bis-Triphenyl Phosphonium-Based Nano Vesicles Have Potent and Selective Antibacterial Effects on Several Clinically Relevant Superbugs

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**Figure S1.** Optical micrograph of solid BPPB obtained using a 4 × objective.



**Figure S2.** Size distribution of BPPB vesicles and large aggregates self-formed in a 10 mM solution.



**Figure S3.** Size distribution of BPPB vesicles and aggregates self-formed in a 5 mM solution.

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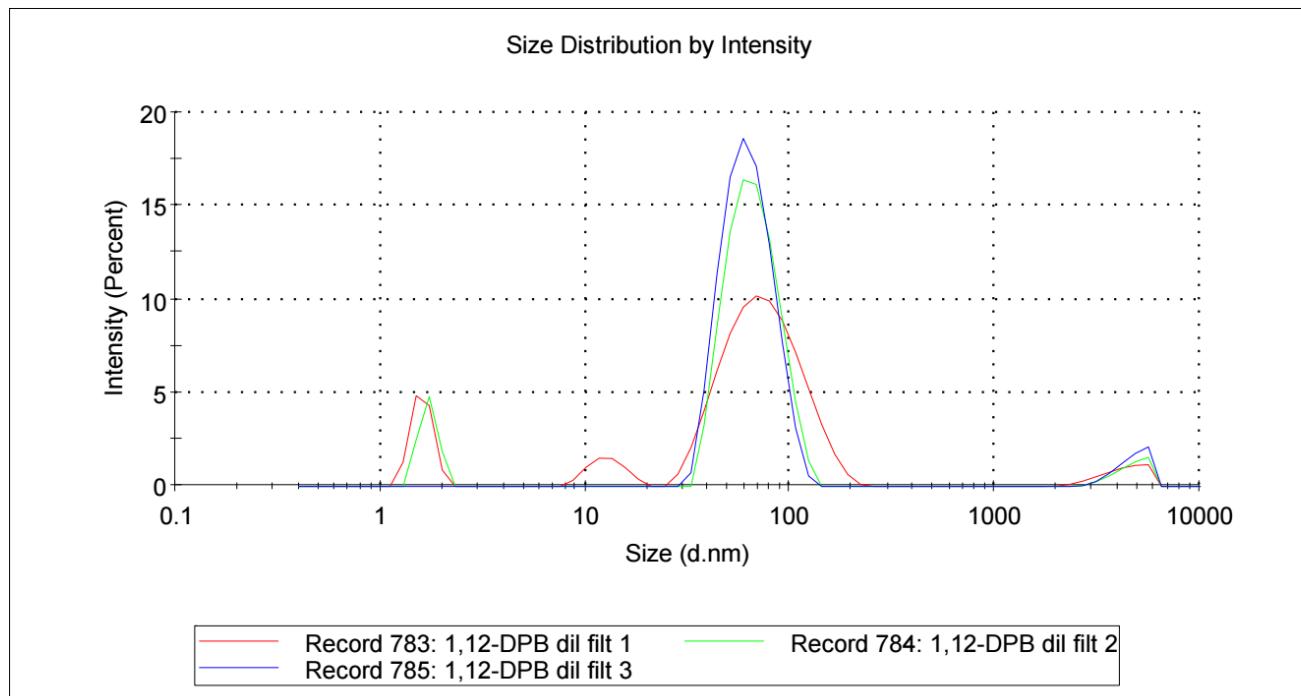
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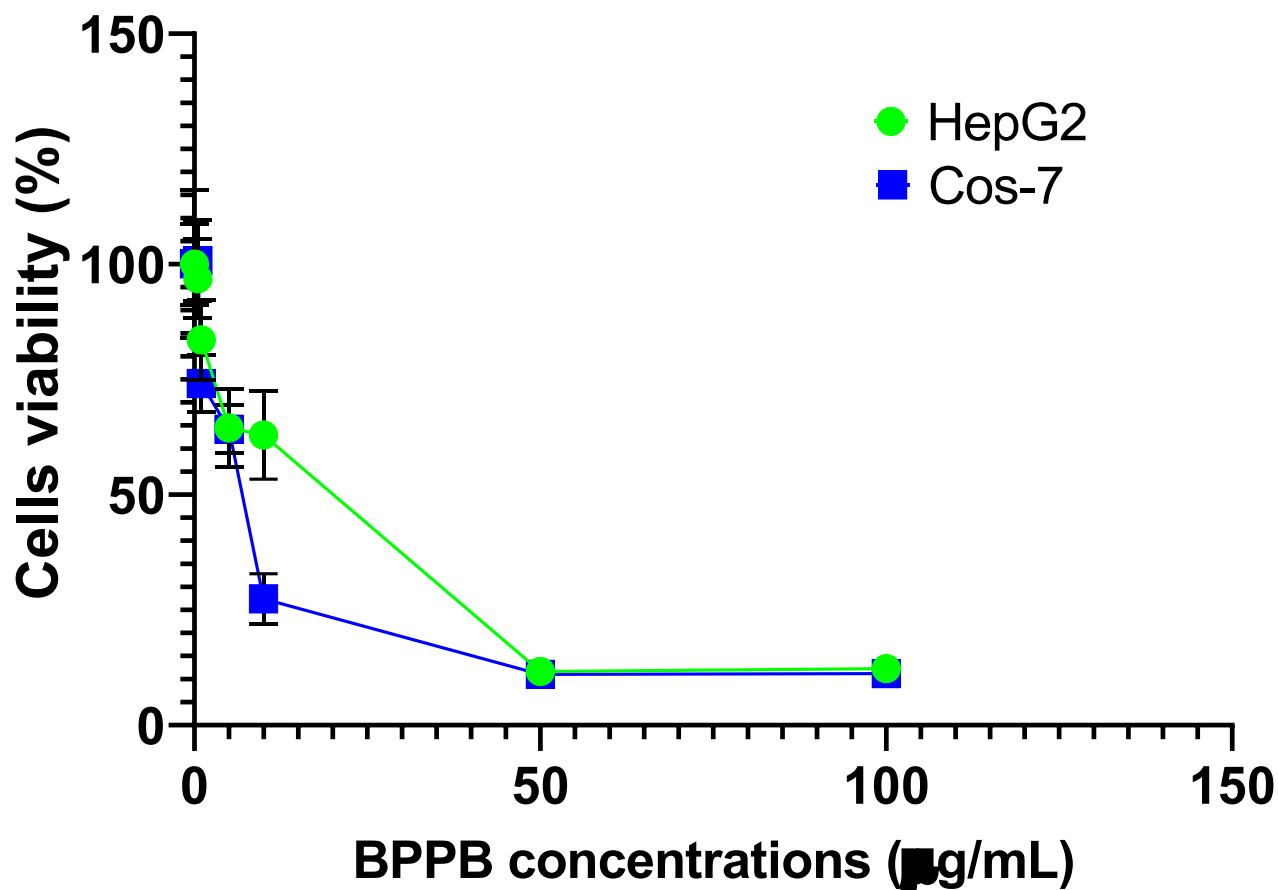
## Results

		Size (d.nm...)	% Intensity:	St Dev (d.n...
<b>Z-Average (d.nm):</b> 41,29	<b>Peak 1:</b>	77,92	77,9	32,86
<b>Pdl:</b> 0,584	<b>Peak 2:</b>	1,605	11,3	0,1868
<b>Intercept:</b> 0,795	<b>Peak 3:</b>	12,86	5,8	2,470

**Result quality** [Refer to quality report](#)



**Figure S4.** Size distributions of BPPB vesicles and aggregates self-formed in a 5 mM solution.

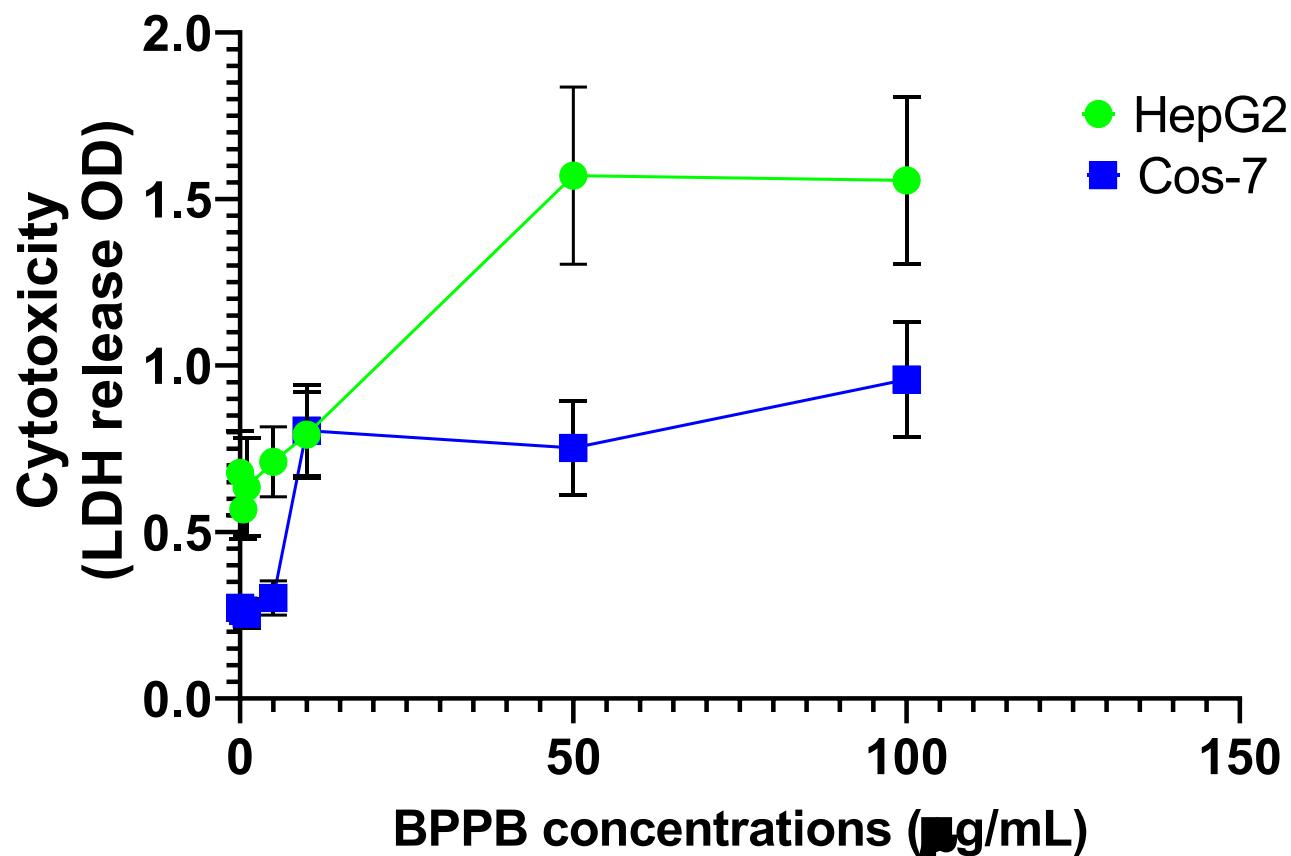


**Figure S5.** Cell viability (%) of Cos-7 (blue trace) and HepG2 (green trace) cells vs increasing BPPB concentrations (0.5–100  $\mu\text{g/mL}$ ) after 24 hours of exposure. Concentration = 0.0  $\mu\text{g/mL}$  corresponded to the control.

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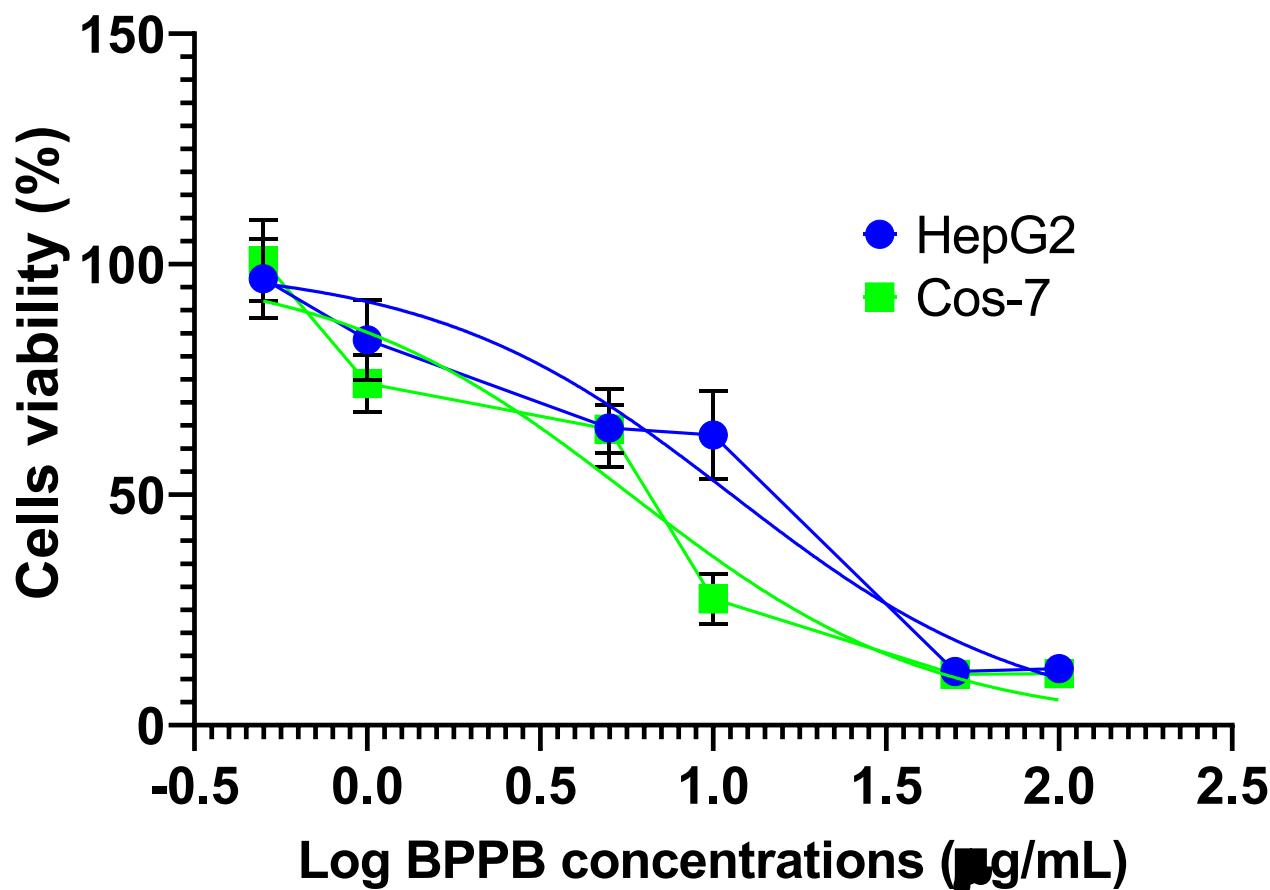
**Figure S6.** Cytotoxicity (LDH release OD) on Cos-7 (blue trace) and HepG2 (green trace) cells vs increasing BPPB concentrations (0.5-100  $\mu\text{g/mL}$ ) after 24 hours of exposure. Concentration = 0.0  $\mu\text{g/mL}$  corresponded to the control.

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**Figure S7.** Plot of Log concentration of PBBP vs. cell viability (%) (blue and green traces with indicators and error bars) and plot of nonlinear fit of Log concentrations of PBBP vs. cell viability (%) (blue and green traces without indicators).

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