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Fig. S1 One of the sizes of CL-PFH-DOX-NPs in length.



Fig. S2 Figure S2. Calibration curve of DOX from the absorbance at 485nm with different concentrations



Fig. S3 Figure S3. One of the sizes of B.bifidum@CL-PFH-DOX-NPs in length.



Figure S4. EEF analysis of different groups.

(n=5, **P<0.01, ***P<0.001, ****P<0.0001)



Figure S5. The hemolysis test of CL-PFH-DOX-NPs at different concentrations.