Capture and Lysis of Dye-Loaded Endotoxin by the Immobilized Peptides

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Kinetics of Native Lysis

The native lysis rate constant is defined as the rate at which the open in the absence of peptides. It is a baseline to compare the peptide-induced lysis rates to. Figure 4 shows the rate constant calculation for native lysis at three vesicle concentrations resulting in an average native lysis rate constant of $k_{average} = 0.13 \pm 0.01 \text{ day}^{-1}$. 

Future Work/Work in Progress

- Peptide interactions to support our "chelation effect" hypothesis.
- Measure dye-loaded vesicle interaction with WLBU2 to characterize first order lysis rate over a peptide concentration range of 1-10 µM.
- Use ZETA Pals dynamic light scattering to obtain an accurate size distribution of the vesicles and compare it with previous vesicle studies.

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