Fig. S1 Calibration curves for Pb2+ binding to colominic acid in A) Trial 1 and B) Trial 2. These linear regression curves to determine calculated concentrations during metal binding experiments.

\[ Y = 0.002448 \times X + 6.041 \times 10^{-5} \]

R square 0.9993

\[ Y = 0.002317 \times X - 0.0006868 \]

R square 0.9995
Fig. S2 Calibration curves for Cu$^{2+}$ binding to colominic acid in A) Trial 1 and B) Trial 2. These linear regression curves to determine calculated concentrations during metal binding experiments.
Fig. S3 Second order polynomial fit to Trial 2 standard curve data.
Fig. S4 Calibration curves for Pb\(^{2+}\) binding to serogroup W polysaccharide. The linear regression curves to determine calculated concentrations during metal binding experiments.