



Figure S5. Actual ligands in our crystal structures in comparison to related known substrates.

Chloramphenicol (Cm): MW, 323 Da; electroneutral; and size: $\sim 260 \text{ \AA}^3$. N-dodecyl-N,N-dimethylamine-N-oxide (LDAO): MW, 229 Da; positively charged; and size: $\sim 235 \text{ \AA}^3$. Deoxycholate (Dxc): MW, 391 Da; negatively charged; and size: $\sim 360 \text{ \AA}^3$. Potential homologues are selected from a previous report [17].