

# **The importance of detergent selection: Are you choosing the right detergent for your membrane protein?**

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In the time that has elapsed since the deposition of the first membrane protein structure in 1985, we have witnessed many significant strides in the field. Despite the substantial growth and tremendous success, bottlenecks persist throughout the membrane protein workflow, including expression, solubilization, purification and crystallization. For just as long, Anatrace Products has been a trusted resource in membrane protein research, due to their large portfolio of detergents and lipids, and unsurpassable standards in quality and reproducibility.

We are excited to present an updated overview of detergent usage in membrane protein solubilization, purification, and crystallization which highlights the importance of detergent choice throughout each step of the membrane protein crystallization pipeline. Always committed to innovating, we have developed new tools to simplify the detergent selection process. Data will be presented from our Analytic Extractor and Analytic Selector kits, designed to facilitate the choice of detergent for protein extraction (Extractor) and downstream applications including crystallization, NMR, EM, and binding studies (Selector). Lastly, we will introduce new detergent offerings, including novel trehalose-based detergents, and bicelle kits for crystallization.