

Ultrafiltration and Diafiltration

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Ultrafiltration (UF) is a commonly used biotech process for concentrating a dilute product stream. UF separates molecules in solution based on the membrane pore size or molecular weight cutoff. Diafiltration (DF) is most often used to exchange product into a desired buffer (e.g., from an elution buffer into a final formulation buffer) UF and DF typically use tangential flow filtration, where feed flows parallel to the membrane surface rather than perpendicular to the surface. Materials of construction for UF/DF membranes include cellulose acetate, polyvinylidene fluoride (PVDF), and polyethersulfone...

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