EQUIPMENT CARD

PLAPIQUI



#5614

Ultrafiltration system (HBT-UF , 5002)

DESCRIPTION

Laboratory ultrafiltration system that separates by membrane according to molecular size. It retains macromolecules, colloids and suspended solids, while allowing water and low molecular weight solutes to pass through.

MAIN FEATURES

- Principle: pressure-driven membrane filtration, with molecular weight cut-off (MWCO)
- Typical ultrafiltration separation range: pores of 0.01 to 0.1 µm; retention of macromolecules of the order of 10^3 to 10^6 Da
- Configuration: membrane module with recirculation pump, inlet and outlet pressure gauges, and separate collection of permeate and retentate
- Operating mode: tangential flow, with the possibility of concentration and diafiltration
- Cleaning: backwashing and chemical cleaning of the membrane

MAIN APPLICATIONS

- Concentration and purification of natural product extracts
- Separation of macromolecules and colloids from aqueous streams
- Treatment and reuse of process wastewater
- Clarification of effluents and removal of turbidity and microorganisms
- Sample conditioning prior to instrumental analysis

ASSOCIATED CAPABILITIES AND SERVICE

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