PRODUCT DATASHEET

Molecular Weight Cut Off (MWCO) Testing System





OVERVIEW

The Tech Inc. Molecular Weight Cut Off (MWCO) Testing System is a precision membrane characterisation platform engineered for membrane research, pharmaceutical, and biotechnology applications. The MWCO Testing System is designed to determine the molecular weight cut-off of ultrafiltration and nanofiltration membranes — the molecular weight at which 90% of solutes are rejected by the membrane.

APPLICATIONS

UF and NF membrane characterisation and MWCO determination; membrane pore size distribution analysis; pharmaceutical membrane qualification and validation; biotechnology membrane screening for protein separation.

KEY ADVANTAGES

- MWCO determination methodology using PEG, dextran, and protein marker solutions
- Stirred cell operation mode for flat sheet membrane coupons
- Crossflow operation mode for realistic hydrodynamic conditions
- Integrated UV-Vis spectrophotometer for real-time solute concentration measurement
- GPC/SEC (Gel Permeation Chromatography / Size Exclusion Chromatography) analysis capability for molecular weight distribution

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Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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