

Applied Biomimetic

AB DairySep™ Series UF

Applied Biomimetic UF membranes are a new class of high performance membranes uniquely manufactured for the dairy industry.

AB UF PE and PES membranes features include:

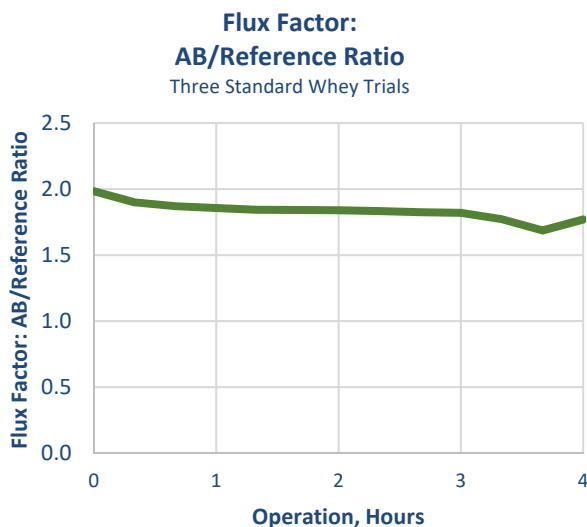
- Extremely high water flux
- Narrow MWCO
- High protein rejection
- High passage of non-protein solids

The resulting benefits are:

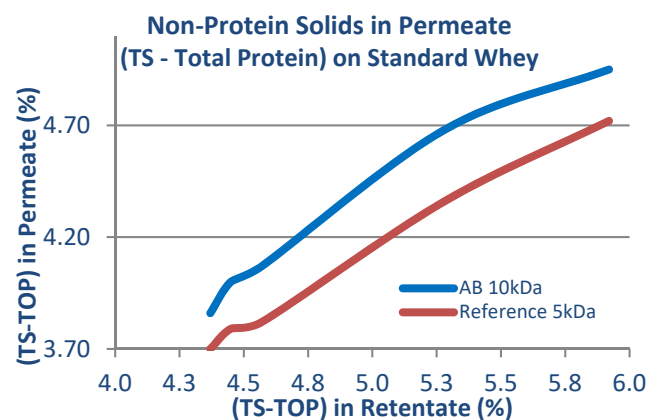
- Reduced number of elements and vessels
- Substantially lower energy profile
- Accurate protein fractionation yields higher quality retentate
- Reduced need for retentate post treatment

Field testing demonstrate continuous superior performance versus conventional 5 kDa membranes.

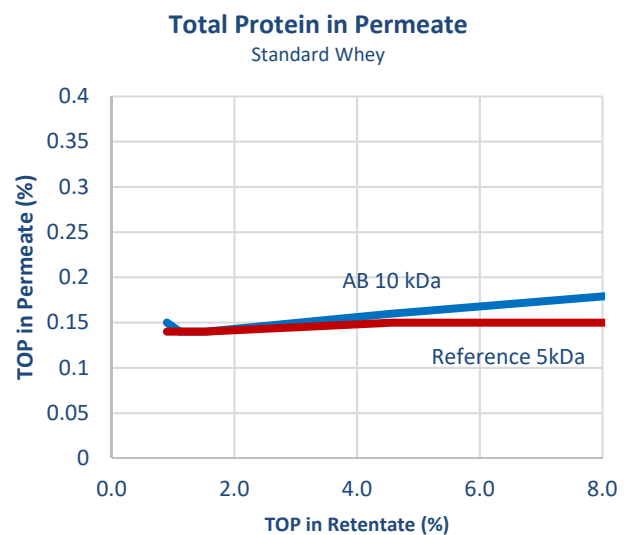
AB DairySep 10kDa membrane has 75% to 100% better water permeability than industry 5 kDa reference:



Higher passage of non-protein solids leads to purer protein concentrate:



Comparable Protein Rejection even with increasing retentate concentration:

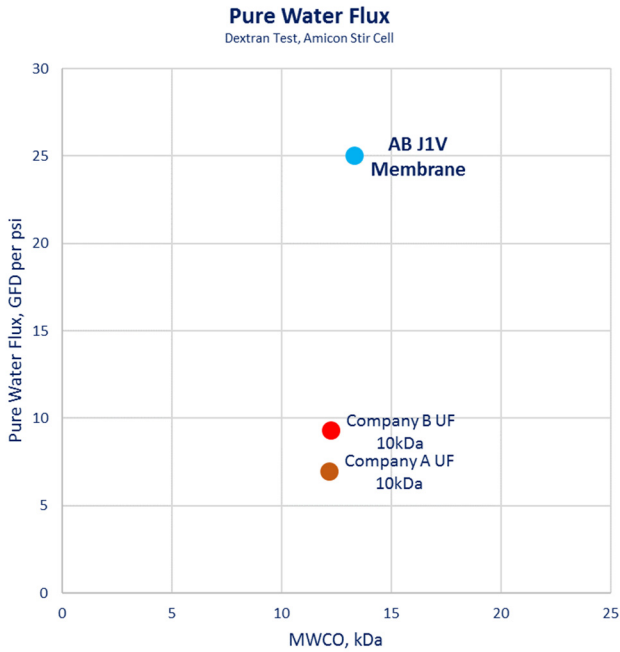


The AB 10 kDa does the job of other's 5 kDa.

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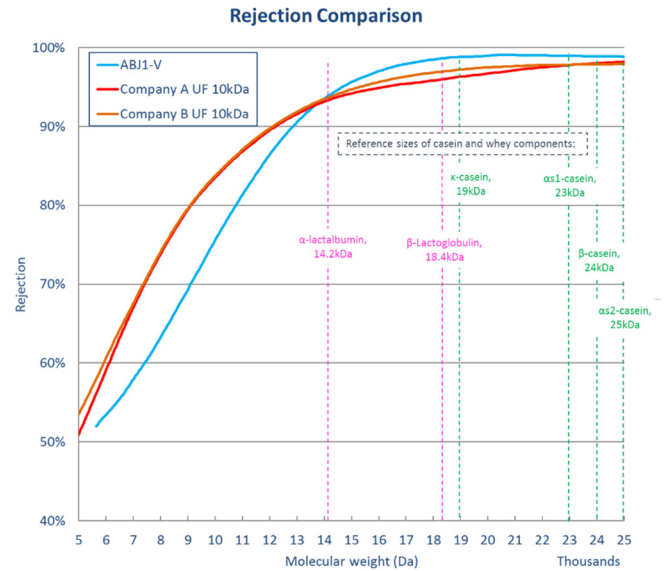
DairySep UF Dextran Benchmarking

Standard pure water tests reveal superior permeability, translating into higher element productivity:



The AB DairySep membrane has a sharper performance profile, achieving better separation precision than common industry membranes.

The DairySep retains more larger molecules, and passes more smaller constituents in the permeate.



The AB DairySep membrane is available in a variety of standard spiral sizes and configurations.

Contact your Applied Biomimetic representative for element orders and trials elements.

Visit www.appliedbiomimetic.com

