

Diffusion Transfer Functionalized Membrane

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The Invention

A method of making a filter, the resulting filter, and a method of using the filter to filter proteins from solution are described. The method includes contacting a porous, polymeric substrate with a transfer liquid comprising a solvent(s) and a charged polymeric solute. The transfer liquid and the polymeric substrate have a Hansen Solubility Parameter ("HSP") distance of from about 10 to about 35. Contacting the polymeric substrate with the transfer solution causes the polymeric substrate to accept the charged polymeric solute by diffusion transfer, thereby yielding a functionalized filter medium. Removal of the transfer liquid from the polymeric substrate traps the charged polymeric solute on the surface of the polymeric substrate.

Additional Information

For More Information About the Inventors

Mark Etzel

Tech Fields

• Animals, Agriculture & Food : Food processing

For current licensing status, please contact Emily Bauer at emily@warf.org or 608-960-9842

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