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Preparation of Corn Oil/Water and Water/Corn Oil PTFE Membranes

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PTFE (polytetrafluoroethylene) membrane filters were tested for pre-emulsions by the membrane emulsification method using a pre-emulsified hydrophilic PTFE membrane was used to prepare an O/W emulsion without disturbance of the continuous phase. A W/O emulsion was prepared using a membrane filter in the same way. The higher the flux of the pre-emulsion via the membrane was, the higher the monodispersibility of the

emulsified emulsion became. There was no limit to the emulsifying rate under the conditions tested. The mean particle diameter of W/O emulsions were ca. 3 times the mean pore size of the membrane.

Keywords: [membrane emulsification](#), [pre-emulsified emulsion](#), [PTFE membrane](#), [emulsifying rate](#), [monodispersibility](#), [stability](#)



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