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Glycine Transport through a Charged Polysulfone Cation Exchange Membrane

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 [Keywords](#)
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Abstract: The transport of glycine through a charged polysulfone cation exchange membrane was studied as a function of pH at different initial conditions of less than pH 5.9 and the glycine permeability was explained under the experimental conditions as pH dependent interfacial transport. The glycine permeability increases with a decreasing pH in the receiver phase. The largest permeability was obtained if the initial pH on the source side was pH 5.9 and that on the opposite side was pH 2.0. The transport phenomena can be explained by the interfacial transport based on the interfacial chemical reaction (protonation, deprotonation or ion-exchange) between both phases in terms of the initial pH of the solution.

Key Words: amino acid transport; charged membranes; permeability; glycine.

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