

# STUDY OF DIFFERENT IONS DIFFUSION THROUGH ARTIFICIAL AND NATURAL MEMBRANE STRUCTURES

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**Abstract:** *This paper presents a comparative study of transport of Na<sup>+</sup>, K<sup>+</sup> and Cl<sup>-</sup> ions through some membrane structures. The influence of alcohol on membrane transport of these ions through the two types of structures was studied. The experimental measurements were accomplished using physical methods of conductivity, potentiometry and flame photometry. As a result of this study, it was noticed that the artificial membranes used are much more permeable compared with much more complex biological membrane.*

**Key words:** *PVA hydrogel membrane, Glisson's Capsule, diffusion potential, conductance.*