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(54) Title: VESICLE INCORPORATING TRANSMEMBRANE PROTEIN

(57) Abstract: The present invention relates to a vesicle incorporating a transmembrane protein, wherein the vesicle forming material comprises a mixture of poly(ethylene glycol)-block- poly(propylene glycol)-block-poly(ethylene glycol) and polyetheramine. The vesicle according to the invention generally withstand elevated temperature without substantial shrinkage of the diameter, which in turn results in maintenance of the water permeability virtually unaffected. Pluronic based vesicles have a large content of amino groups available on the surface illustrated by the larger zeta potential values available for crosslinking in the polyamide layer by chemical reaction with trimesoyl chloride (TMC).

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