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Patent Search

Invention Title	A METHOD OF PREPARATION OF FORWARD OSMOSIS MEMBRANE USING SYNTHESIZED POLY(SULFONE-CO-AMIDE) POLYMER
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Abstract:

Abstract A Method of Preparation of forward Osmosis Membrane using Synthesized poly(sulfone-co-amide) (PSAm) Polymer The present invention relates to a novel the development of forward osmosis membrane using synthesized Poly(sulfone-co-amide) (PSAm). The process involves steps like: (1) Synthesis of the poly(sulfone-co-polymer), (2) Preparation of polymer casting solution and forward osmosis membrane using casting machine. (3) Assembling of the FO membranes in spiral module f prepared membranes are capable of giving water flux of ~ 22-23 L.m-2.h-1 and very nominal back diffusion of salt of only 0.5 – 0.7 % from draw solution to the feed (solution salt rejection ~99.3 – 99.5%) at standard FO test condition (Feed: DM water; draw solution: 1 M NaCl with no pressure). These membranes are useful in conc desired product in pharmaceutical /biotech, food &beverage industries and dairy industries. Figure 6

Complete Specification

FORM2

THE PATENTS ACT 1970
39 OF 1970

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THE PATENT RULES 2003
COMPLETE SPECIFICATION

(SEE SECTIONS 10 & RULE 13)

1. TITLE OF THE INVENTION "A METHOD OF PREPARATION OF FORWARD OSMOSIS MEMBRANE USING SYNTHESIZED POLY(SULFONE-CO-AMIDE) POLYMER"

Field of invention

[0001] The present invention relates to a novel methodology for synthesis of poly(sulfone-co-amide) (PSAm) polymer and subsequent development of forward osm membrane in a single step casting process.

Background of the invention

[0002] Forward osmosis (FO) is an osmotic pressure driven process wherein a semi-permeable membrane is used for separation of process liquid from dissolved sc Osmotic pressure gradient is the driving force for separation such that a "draw" solution of high concentration (relative to that of the feed solution) is used to indu

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