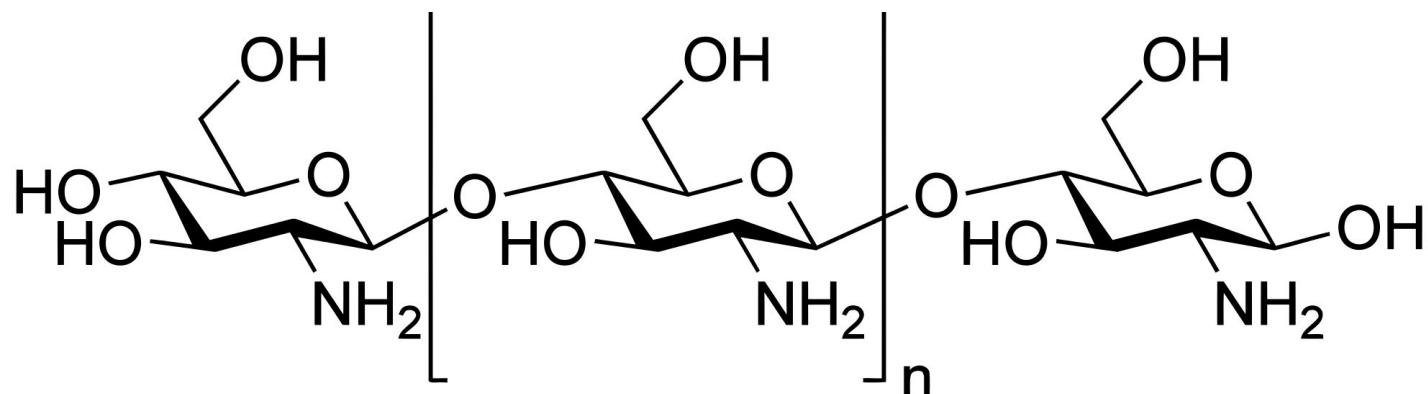




POROUS CHITOSAN MEMBRANES

Synthesis of porous chitosan membranes.



BACKGROUND

Chitosan is obtained from chitin, one of the most abundant polysaccharides on earth found in insects and crustacean skeletons. This material is biodegradable, biocompatible and antimicrobial. It is a very useful material for medical, pharmaceutical, and food industries. Membranes are of great importance for medical sector, and are produced by different methods, commonly freeze drying and freezing, however these methods are expensive and energy intensive.

KEY BENEFITS

- A membrane with high porosity.
- The membrane preserves chitosan's characteristics: antimicrobial activity, biocompatibility, no toxicity.
- Expensive equipment is not required.

DEVELOPMENT STATUS

Technology readiness level: 3/9

TECHNOLOGY

Method of synthesis of porous chitosan membranes that consists in the reaction of NaHCO_3 with organic acid present in a solution of chitosan that generates bubbles, then drying in an oven to form porosities in the sample, and finally washing with distilled water.

INTELLECTUAL PROPERTY

Patent Number: MX 337816

This technology is available for licensing. More opportunities on our website: <http://redottec.com>



Tecnológico
de Monterrey

📍 Av. Eugenio Garza Sada No.427, Col. Altavista
Monterrey, Nuevo León, México. C.P. 648449

☎ (81)8358-2000 Ext. 5626

✉ ott.mty@itesm.mx

📘 OTT - Oficina de Transferencia de Tecnología
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