

[54] **CROSS-LINKED PULLULAN**

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[58] **Field of Search** **260/17.45 T, 17.4 R; 106/169, 208, 162; 195/31 P; 536/1, 112**

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[57] **ABSTRACT**

Cross-linked pullulans are obtained by the reaction of pullulan with a cross-linking agent selected from the group consisting of polycarboxylic acids, halogenated dicarboxylic acids, polycarboxylic anhydrides, aldehyde compounds, N-methylol compounds, isocyanate compounds, metaphosphoric acid salts, divinyl compounds, bis-aziridine and bifunctional compounds of the formula,



wherein X and Z are each a halogen atom or an epoxy group and R is an aliphatic residue having 1 to 30 carbon atoms, in a solvent, and are useful as gels or beds for chromatography or in various fields requiring high degrees of water absorbency and retention.

7 Claims, No Drawings