

THE DEPENDENCE OF THE MEMBRANE STRUCTURE ON THE NON-WOVEN FORMING THE MACROPORES IN THE 3D SCAFFOLDS PREPARATION

ZALEŻNOŚĆ STRUKTURY MEMBRANY OD WŁÓKNINY FORMUJĄCEJ MAKROPORY PRZY OTRZYMYWANIU SKAFOLDÓW TYPU 3D

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Abstract: Comparison of three membrane structures with wide porous were presented. One of the membranes was obtained from polyethersulfone. As macropore precursor cellulose fibers were used. Two of fibers were obtained from poly(L-lactide). As macropore precursors polyvinylpyrrolidone (1.2 MDa) and pork gelatin non-woven was used respectively. Influence of non-woven on the structure of membrane interior was showed. Necessity of specific membrane structure application was explained.

Keywords: Polysulfone membrane, polyester membranes, membrane structures, biodegradable membranes, 3D scaffold