THE BIOCOMPATIBILITY OF MEMBRANES FOR IMMUNOISOLATION

Ludomira Granicka, Jerzy Kawiak, Andrzej Weryński

Institute of Biocybernetics and Biomedical Engineering, Polish Academy of Sciences, Warsaw, Poland

Abstract

The assessment of biocompatibility of systems consisting of a host, permiselective membrane and a biological material, encapsulated within may be standardized for biological material immunoisolation purposes. The procedures for evaluation of the membrane non-toxicity against the biological material, the membrane physical and chemical stability post implantation and the biomaterial ability to perform with the host are presented.

Keywords: encapsulation, hollow fibers, membrane stability, membrane non-toxicity, biomaterial performance with the host