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Surface modification of PES membrane via aminolysis and immobilization of carboxymethylcellulose and sulphated carboxymethylcellulose for hemodialysis

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Highlights

- PES membranes were modified via surface amination.
- CMC and SCMC were immobilized onto the aminated membranes.
- The unmodified PES, PES-CMC, and PES-SCMC membranes were characterized.
- Modified membranes showed good hemocompatibility especially for the PES-SCMC.

Abstract

Sulphated carboxymethylcellulose (SCMC) was synthesized and characterized via FT-IR and CHNS analysis. The PES membranes were prepared and modified via surface amination with an aminolysis reaction and amount of amino groups was measured. The

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