

ABSTRACT

DENDRIMER CONJUGATES FOR DETERMINING MEMBRANE RETENTION LEVEL
AND/OR PORE STRUCTURE

A method for determining the retention level and/or pore structure of a membrane is disclosed. The method comprises passing a challenge solution comprising single stranded DNA-dendrimer conjugates through the membrane, to obtain a permeate solution and performing a PCR assay on an equal volume of each of the challenge solution and the permeate solution to amplify the single stranded DNA contained in each. The single stranded DNA concentration correlates to the dendrimer conjugate concentration in each of the challenge solution and the permeate solution, and the retention level and/or pore structure can be determined by comparing the concentration of the dendrimer conjugate in the challenge solution with the concentration of the dendrimer conjugate in the permeate solution. Kits for determining the retention level/ pore structure are also disclosed.

Fig. no. 2.