

membranes produced. These interactions have been proven by disruptions of certain characteristic bands (narrowing and widening of the bands) and by the appearance of new bands.

- The thermal behavior of the different membrane materials was studied by thermogravimetric analysis (TGA). The results obtained showed that all the membranes developed have good thermal stability and resist up to a temperature of 178°C, a temperature much higher than that used in the different membrane processes.

- The results obtained showed that the M1, M2, M3 and M4 membranes are very effective in fixing cadmium. The M1 membrane, consisting solely of cellulose triacetate, is the best one which fixed the greatest quantity of Cd²⁺ metal ions. Concerning the elimination of the Rhodamine B dye, the membranes developed showed good fixation ranging from 65% to 81%. This observation indicates that such membranes can be used selectively with respect to a mixture of organic and inorganic contaminants.

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