**Beta-cyclodextrin Molecules (β‐CD) modified PVDF Membranes to remove multi-ionic Dye solutions using steric, inclusion, and dielectric-exclusion.**

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**Figure S1**: Membrane resistance of PVDF-PVP(1-x)- β- CD(x) membranes: M0 (x=0), M1 (x=0.25), M2 (x=0.50), M3 (x=0.75) and M4 (x=1.0).



**Figure S2**. Methyl Red (MR) rejection with different membranes: **M5** (PVDF-PVP (0.75)- a-CD(0.25)), **M0** ( PVDF-PVP), and **M1** (PVDF-PVP (0.75)- bCD(0.25)).