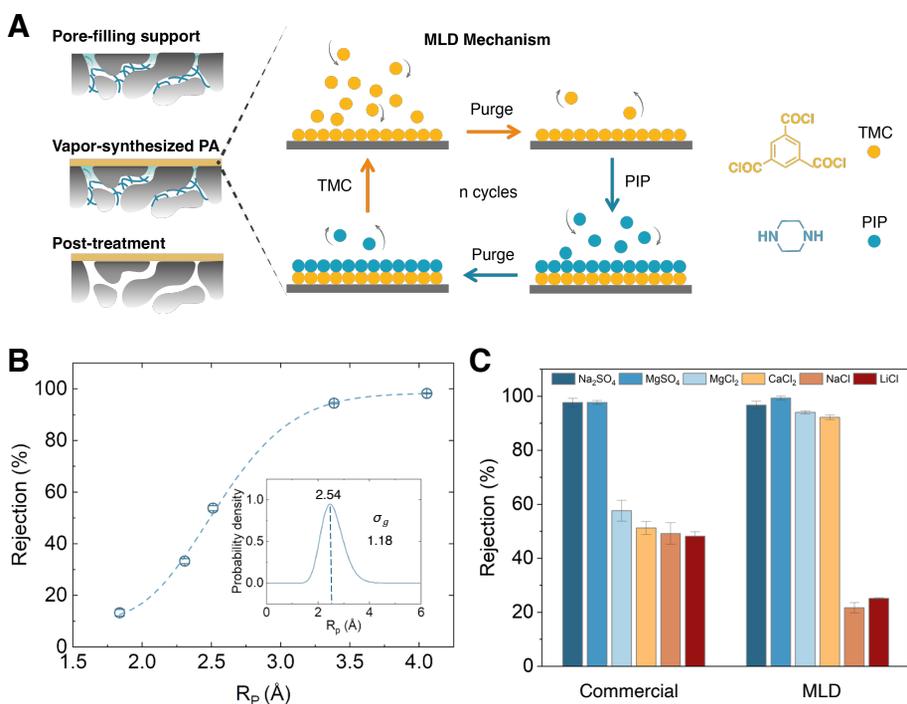


**Figure 1.** **A** SEM cross-section of MLD polyamide RO membrane. **B** Water-salt selectivity of MLD membrane compared to commercial membranes.



**Figure 2.** MLD polyamide NF membrane with sub-nanometer pore size and precise ion separation behavior. **A** Schematic Illustration of MLD membrane fabrication and the underlying MLD process mechanism. **B** Rejection of a series of neutral organic solutes by PIP-terminated MLD membrane. Insert: pore-size distribution derived from the rejection curve. **C** Rejection of series of single salts by commercial and MLD membranes (salt concentration: 1000 ppm, applied pressure: 4.8 bar)