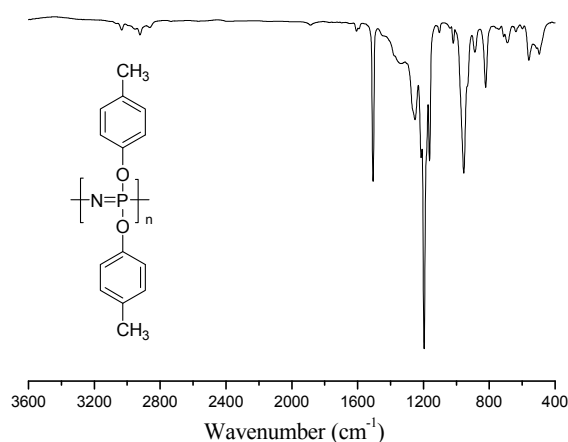


## Supplementary Information

**Table S1.** Electrospinning parameters for PAN and PMPPh/PAN nanofiber membranes used for lipase immobilization.

Material	Voltage (kV)	Collecting distance (cm)	Flow rate (mL/h)	Temperature (°C)	Humidity
PAN	16	15	0.4	25	60%
PMPPh/PAN	16	15	0.2 for both solutions	25	60%

**Figure S1.** FT-IR spectrum of PMPPh.



**Figure S2.** <sup>1</sup>H NMR spectrum of PMPPh.

