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Supporting Information:

Table 1

Exp.no.]	Design 2		
	С	membrane flux	pН	Т
	(mol/L)		(°C)	
1	0.20	102.6	8.5	25
2	0.05	197.7	5.5	40
3	0.20	197.7	7.0	40
4	0.10	287.4	7.0	55
5	0.20	287.4	8.5	55
6	0.10	197.7	7.0	40
7	0.05	197.7	5.5	50
8	0.10	197.7	7.0	40
9	0.10	197.7	7.0	40
10	0.05	102.6	5.5	25
11	0.10	102.6	7.0	25
12	0.10	197.7	7.0	40
13	0.10	197.7	7.0	40

Central composite rotatable design for the hydrolysis condition of EMR

C, substrate concentration

Table 2

ANOVA table for designs 1 and 2.

	SS		Df		MS		F-values		P-values	Probe>F
	1	2	1	2	1	2	1	2	1	2
Model	3.006×10-3	0.025	5	5	6.012×10 ⁻⁴	5.006×10-3	36.53	49.85	0.0002	< 0.0001
А	2.307×10-3	1.583×10-3	1	1	2.307×10-3	1.583×10-3	140.18	15.77	< 0.0001	0.0054
В	2.407×10-6	1.082×10-3	1	1	2.407×10-6	1.082×10-3	0.15	10.77	0.7001	0.0134
Resudial	9.874×10-5	7.029×10 ⁻⁴	7	7	5.760×10 ⁻⁶	1.494×10 ⁻⁵				
Pure Error	2.330×10-6	3.653×10-5	4	4	7.767×10-7	6.670×10-7				
Cor Total	3.105×10-3	0.026	12	12						



Figure 1 Sketch of the pressure-flow rate curves for the polysulfone hollow fiber membranes before and after the lipase immobilization measured by LLP