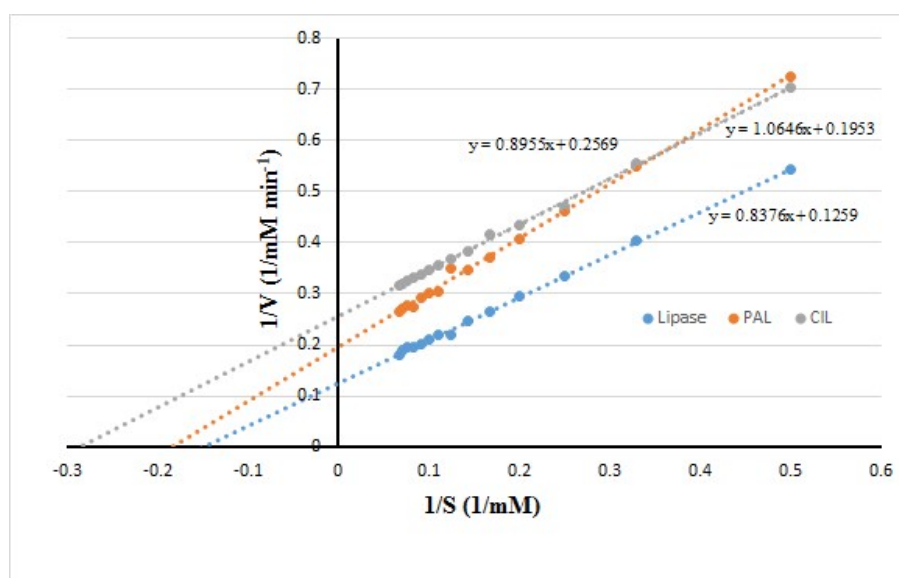


**Table S1. Immobilization of lipase on Ppy/MA/TiO<sub>2</sub>-NC; a) covalent immobilized lipase preparation, b) physically adsorbed lipase**

Immobilized enzyme preparation, X, (U)	Enzyme activity in washes, Y, (U)	Enzyme activity bound		Effectiveness factor, B/A = η	Activity yield (%), B/A×100
		Theoretical X-Y = A, (U)	Actual B, (U)		
a) 17.3	1.1	16.2	15.7	0.97	97
b) 17.3	1.4	15.9	13.7	0.86	86

Each value represents the mean for three independent experiments performed in triplicates, with average standard deviations, < 5%.



**Figure S1. Double reciprocal plot for lipase , physically adsorbed and covalently immobilized lipase.**