

Table 3

Optimized values for MAG, DAG, and I_t predicted by Derringer's desirability function and by the individual models for solvent-free glycerolysis with Lipase PS-DI.

D ^a	Weight ^b of the variables, MAG-I _t	Reaction temperature (°C)	Substrate molar ratio (Gly/TAG)	Enzyme concentration (% w/w)	MAG (%)	DAG (%)	I _t (h)
Maximize (MAG + I _t)							
0.77	Medium-Medium	45.8	3/1	9	24.58	51.87	1.41
0.62	High-Medium	54.7	3/1	9	28.34	49.88	1.10
0.68	Medium-High	40.0	3/1	9	21.08	52.36	1.53
0.45	High-High	42.9	3/1	9	22.93	52.20	1.48
0.27	Very high-Very high	40.3	3/1	9	21.10	52.40	1.50

Maximize (MAG)		60.0	3/1	9	29.67	47.99	0.84
Maximize (I _t)		40.0	3/1	9	21.08	52.37	1.53

^aGlobal desirability to simultaneous optimization of MAG production and I_t

^bRelative importance of the individual response (rk) on the global desirability.