

Supplementary Material

Immobilized lipase in the synthesis of high purity medium chain diacylglycerols using a bubble column reactor: Characterization and application

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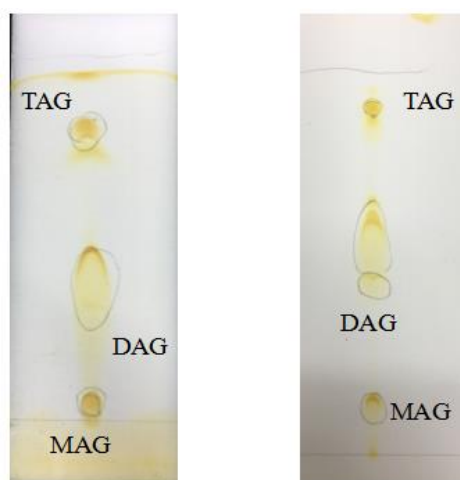


Figure S1 Thin layer chromatograms of different mobile phase systems of (a) petroleum ether: diethyl ether (4:1) and (b) petroleum ether: ethyl acetate (4:1) used to elute and separate the synthesized medium chain diacylglycerols.

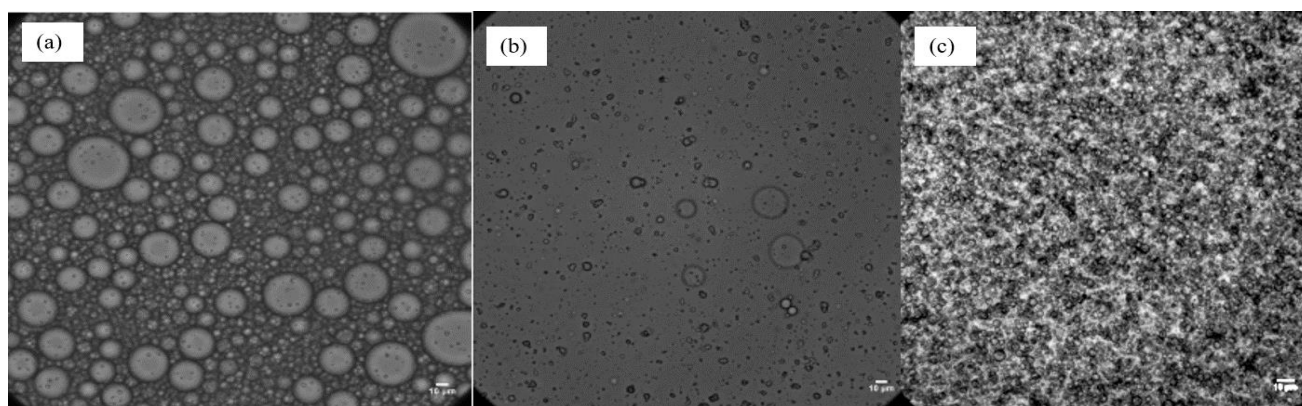


Figure S2 Microscopic images of emulsions prepared using different emulsifiers (a) 1% CITREM, (b) 1% SPAN 80 and (c) 1% PGPR at magnification of 400X.

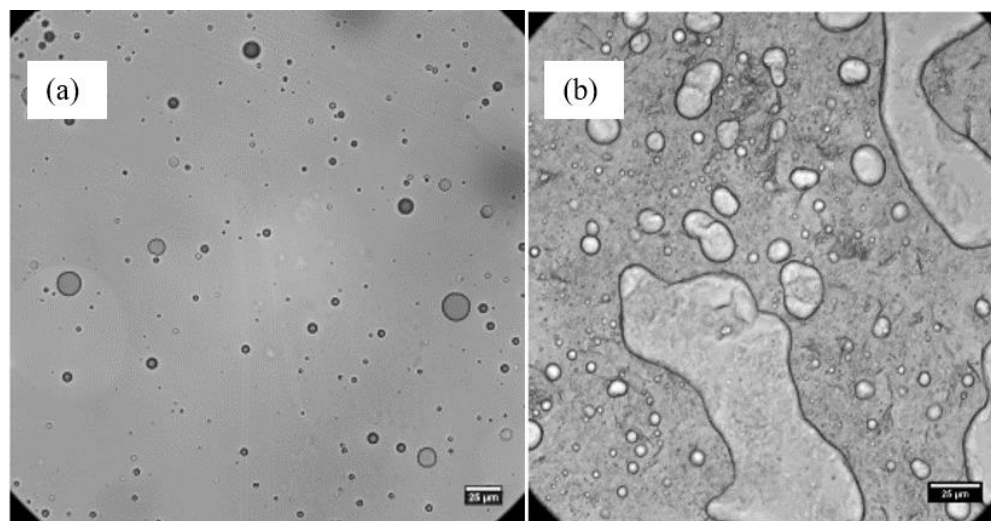


Figure S3 Microscopic images of freshly-prepared emulsion using 5% of (a) C₈-DAG and (b) C₁₀-DAG at a magnification of 640X.

Table S1 Calculated HLB values of the various emulsifiers used

Emulsifier	HLB value
C ₈ -DAG	4.70
C ₁₀ -DAG	4.04
CITREM	3-4
SPAN 80	4.3
PGPR	1.5

The HLB values were calculated using the Griffin's method.