

Table S1: List of surfactants and their CMC values given in literature

Class	Surfactant name	Chain size	MW (gr/mol)	CMC (μ M)
<u>Nonionic</u> Alkyl polyethoxy $\text{CH}_3(\text{CH}_2)_m-(\text{OCH}_2\text{CH}_2)_n-\text{OH}$	Brij-56 Brij-58 Brij-78	m=15, n ~ 10 m=15, n ~ 20 m=17, n ~ 20	683 1123 1150	3.2 [29] 35 [30] 6 [31] , 75 [30] 46 [30]
<u>Nonionic</u> Nonyl phenol polyethoxy $\text{C}_9\text{H}_{19}-\text{C}_6\text{H}_4-(\text{OCH}_2\text{CH}_2)_n\text{OH}$	Igepal CO-210 Igepal CO-520 Igepal CO-630 Igepal CO-720 Igepal CO-890	n ~ 1.5 n ~ 5 n ~ 10 n ~ 12 n ~ 40	308 441 617 749 1982	453 [32] 55 [33], 473 [32] 76 [33] ~ 82-87 [33], 497 [32] 190 [33]
<u>Cationic</u> Cetylpyridinium Chloride $\text{C}_{16}\text{H}_{33}\text{NC}_5\text{H}_5\text{Cl}$	CPC		339	630 [33]

Table S2: Results from Centrifugal MEUF separation of TBNPA at varying concentrations of Brij-58

Brij-58 (gr/L)	Initial TBNPA concentration (ppm)	TBNPA concentration in permeate (ppm)
1	100	71.8
2	100	53
4	100	33.5
10	100	15.5