

Block Copolymer As a Novel Functional Phase in an Aqueous Biphasic System for Species Selective Iodine Extraction

Pallabi Samaddar, Arabinda Chakraborty and Kamalika Sen*

Department of Chemistry, University of Calcutta, 92 APC Road, Kolkata 700009, India

(*email: kamalchem.roy@gmail.com*)

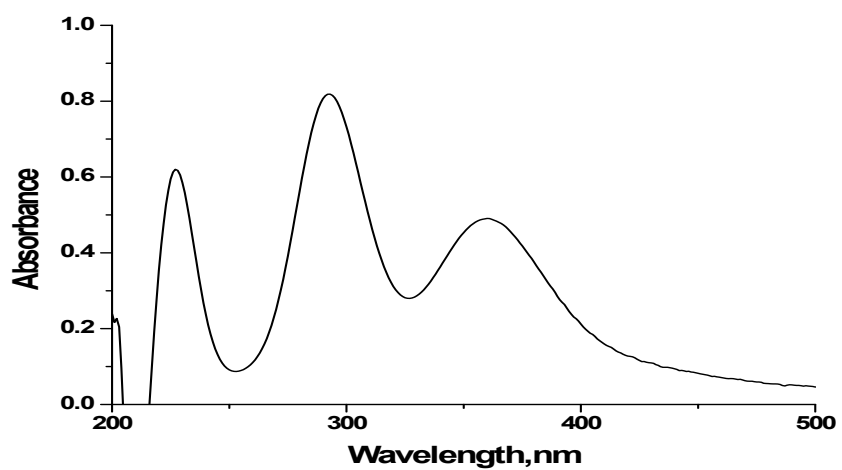


Figure S1: Absorption spectrum of I₂ species dissolved in PPG-PEG-PPG medium

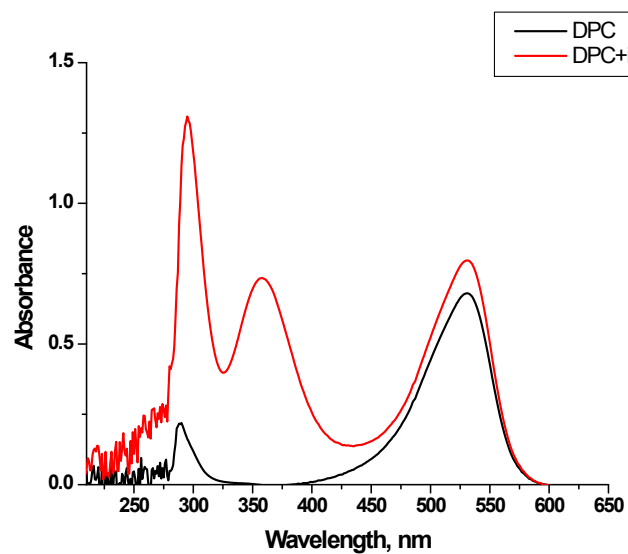


Figure S2: Absorption spectra for DPC and DPC-iodide complex in PPG-PEG-PPG medium

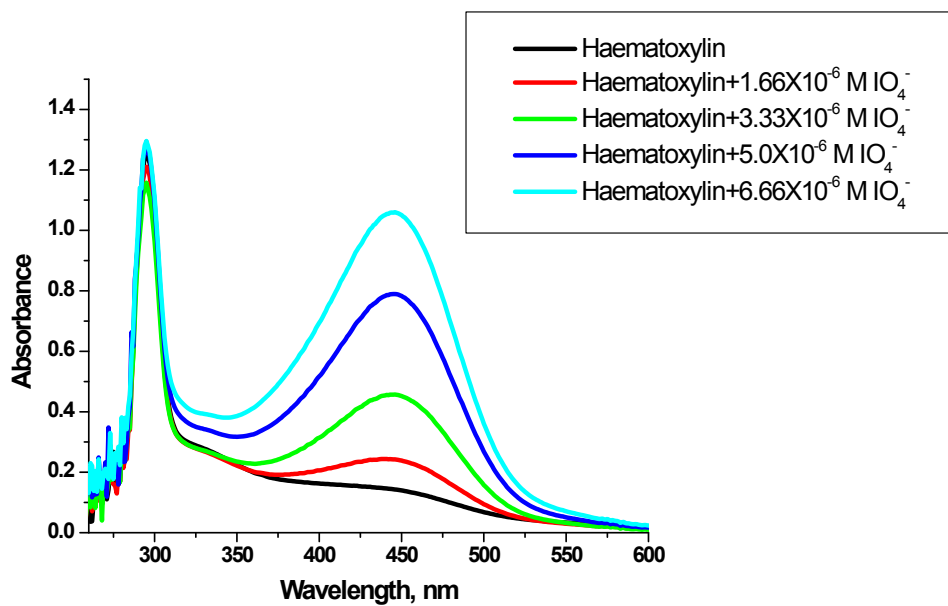


Figure S3: Absorption spectra of haematoxylin and periodate treated haematoxylin

Table S1: Experimental (Liquid + Liquid) Equilibrium Data for the system Sodium tartrate (x_1) + PPG-PEG-PPG (x_2) in water for mass fractions and Tie-line Length (TLL) at the Temperature $T= 296\pm 0.5$ K, Pressure $p = 0.1$ MPa

Feed Composition		Top phase		Bottom Phase		TLL	STL
X_1	X_2	X_1	X_2	X_1	X_2		
18.40	30	0.26	65.22	33.85	0	73.36	- 1.94
15.95	34	0.30	64.15	33.60	0	72.28	- 1.93

Table S2: Fitting parameters of the binodal curve

A	B	$C \times 10^{-4}$	R^2
81.854	- 0.4472	8.76	0.998