

Supplementary Material

1 SUPPLEMENTARY DATA

1.1 Surface Tension

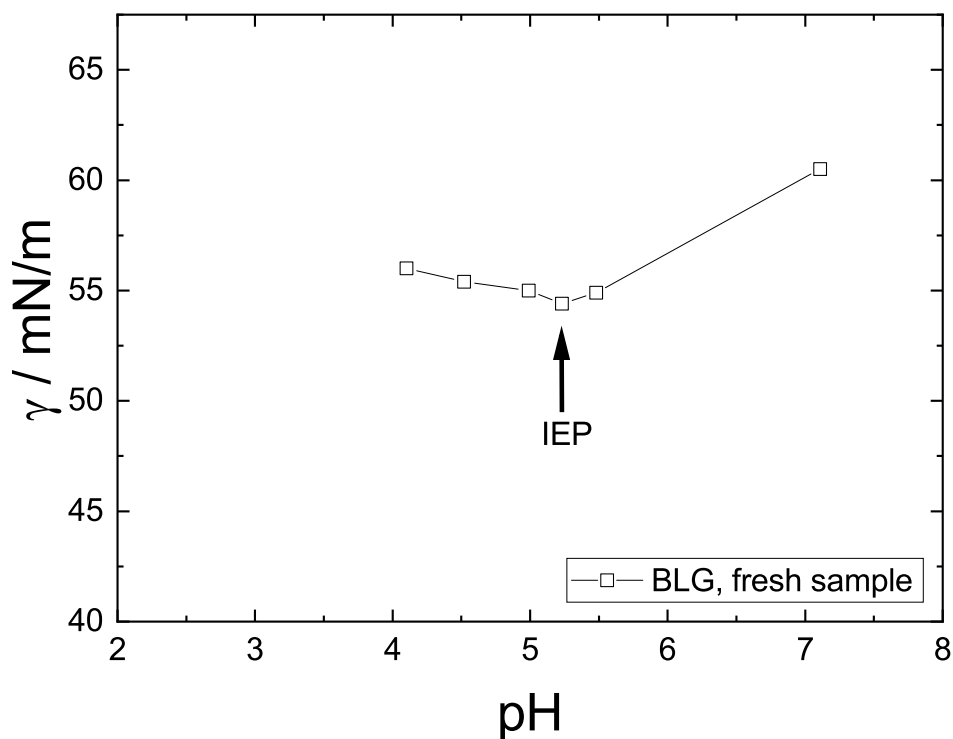


Figure S1. Surface tension of freshly mixed BLG solutions with $c = 10 \mu\text{M}$.

1.2 Ionic Strength

Table S1. Ionic strength for the investigated proteins BLG, BSA and CN for varying pH. Only the ionic strengths of the added HCl or NaOH was considered while the ionic strengths of the proteins were neglected.

Protein	pH	I / mol/l
BLG	4.10	5.66×10^{-5}
	4.50	3.67×10^{-5}
	5.00	1.83×10^{-5}
	5.25	1.67×10^{-5}
	5.50	1.50×10^{-5}
	7.41	0
BSA	3.66	2.83×10^{-4}
	4.07	1.17×10^{-4}
	4.75	3.33×10^{-5}
	5.50	6.67×10^{-6}
	5.85	0
	7.40	6.67×10^{-5}
CN	2.33	5.22×10^{-3}
	3.53	4.25×10^{-4}
	3.91	2.25×10^{-4}
	5.52	0
	7.64	2.10×10^{-4}

1.3 Features for Displacement measurement in BSA Foam Film

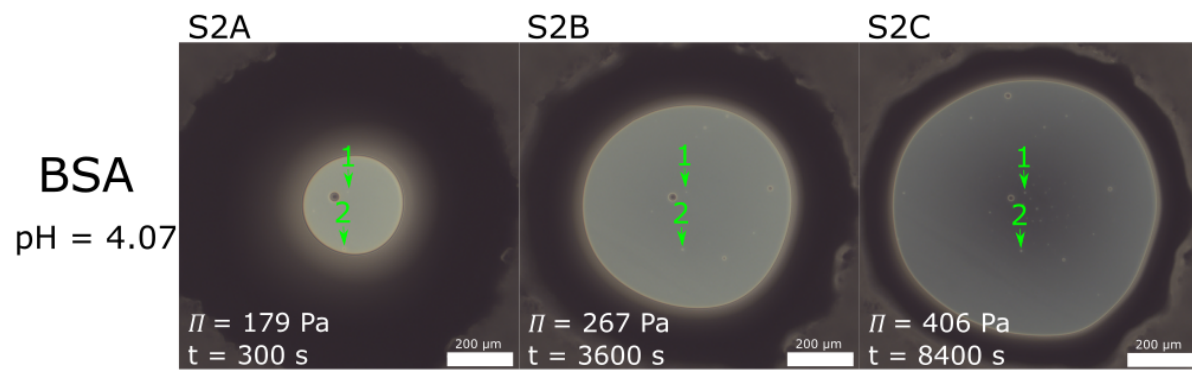


Figure S2. BSA foam film life cycle. Green arrows indicate the features 1 and 2 used for displacement measurement.

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