

*Supporting Information*

# Effect of Osmotic Pressure on Whey Protein Concentration in Forward Osmosis

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**Table S1.** Feed UPW solution conductivities of initial and final stages after 1 hours of operation at different DS concentrations.

Initial DS Concentration (M)	FS conductivity ( $\mu\text{S}/\text{cm}$ )	
	Initial	Final
0.25	3.7 ± 0.0	33.6 ± 1.3
0.5	4.5 ± 0.3	48.7 ± 5.9
1.2	7.1 ± 1.8	80.5 ± 15.7
2.5	12.4 ± 2.5	179.5 ± 47.4
4.5	11.1 ± 0.8	224.5 ± 21.9

**Table S2.** Feed whey solution conductivities of initial and final stages after 5.5 hours of operation at different DS concentrations.

Initial DS Concentration (M)	FS Conductivity ( $\mu\text{S}/\text{cm}$ )	
	Initial	Final
0.25	192 ± 10	481 ± 13
0.5	187 ± 6	503 ± 74
1.2	243 ± 13	1155 ± 191
2.5	257 ± 18	3265 ± 926
4.5	217 ± 33	3180 ± 127

**Table S3.** Osmotic pressure values of various concentrations of NaCl solution.

NaCl Concentration (M)	Osmotic Pressure (bar)
0.11	5.1
0.50	22.5
1.00	46.3
1.49	70.8
2.04	100.5
2.53	128.9
3.03	158.8
3.52	189.9
4.02	222.1
4.51	255.1
5.01	288.9