

Supplementary data

Supplementary data A.

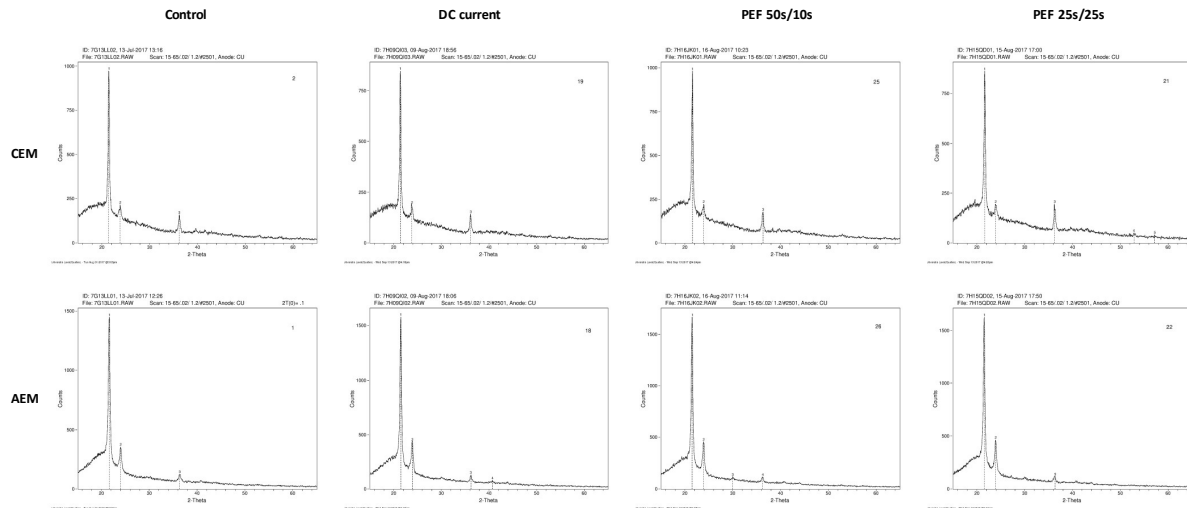


Figure 1: x-Ray diffraction of anion (AEM) and cation exchange membranes (CEM) for all current conditions. Both sides of each membrane were analyzed and gave similar results.

Supplementary data B.

Table 1: Removal rates of calcium, potassium and magnesium in the whey after ED.

	Ca	K	Mg
	Unit : %		
DC current	45.00 ± 1.67a*	81.27 ± 0.27a	25.95 ± 2.80a
50s/10s	45.67 ± 1.31a	80.90 ± 0.13a	26.77 ± 1.62ab
25s/25s	52.84 ± 1.15b	85.14 ± 0.41b	32.45 ± 1.84b

* Using the same letter means that there is no significant difference between the values ($P > 0.05$).