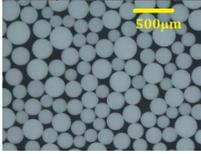


# 1. Cation exchange resin for LF separation

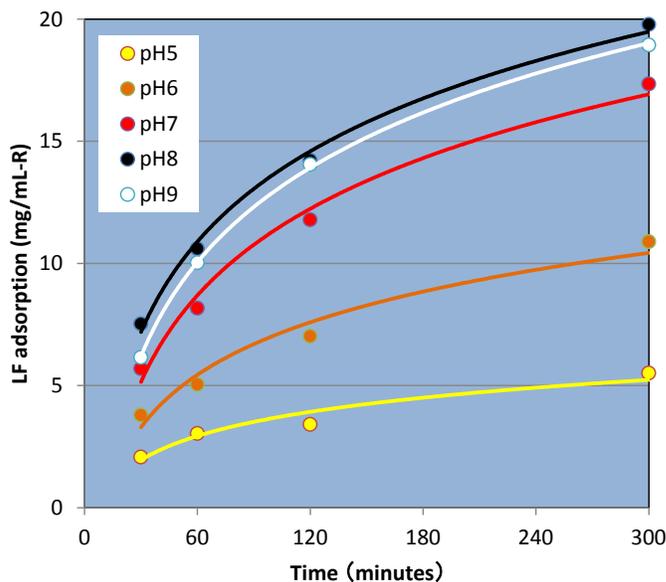
**DIAION™ WK10S** is a small particle methacrylic-type weakly acidic cation exchange resin. It has carboxylic acid functionalities with high regeneration efficiency. A wide range of applications, in particular for the purification of pharmaceuticals, foods, and organic chemicals, are recommended.

DIAION™ WK10S	
Appearance	
Structure	$\begin{array}{c} \text{CH}_3 \\   \\ -\text{CH}_2-\text{C}- \\   \\ \text{COOH} \end{array}$
Shipping density* (g/L)	720
Water content (%)	50–60
Effective size (mm)	0.15 min.
Total capacity (meq/mL)	2.5 min.
Uniformity coefficient	1.6 max.
Total swelling* (H <sup>+</sup> to Na <sup>+</sup> ) (%)	42

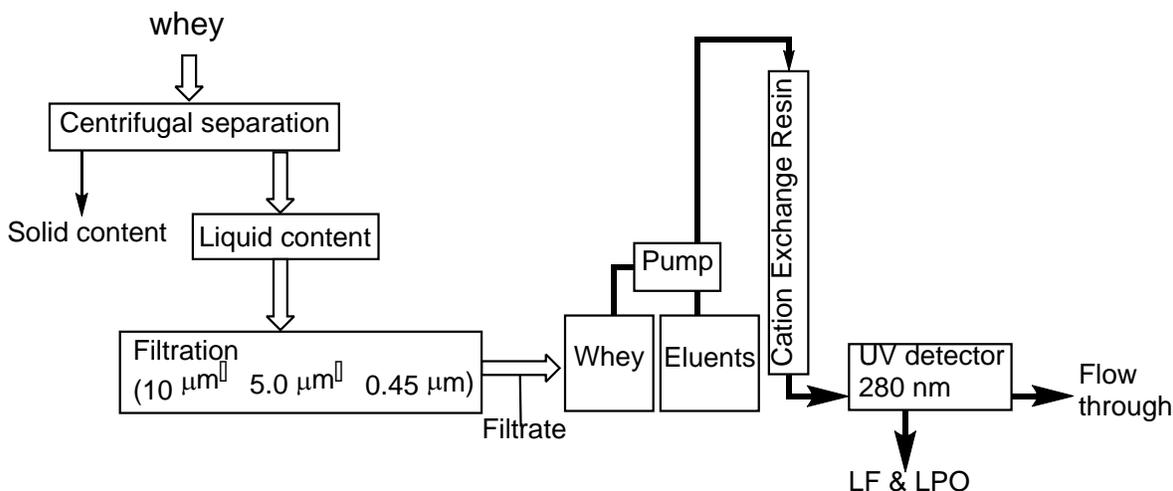


# 2. Batch adsorption of LF using WK10S

Time-LF adsorbed amount plots for LF solutions of different pH values.

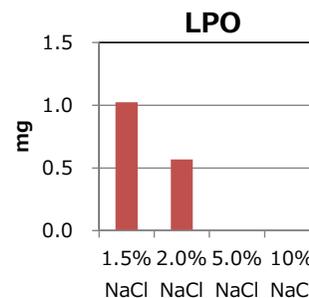
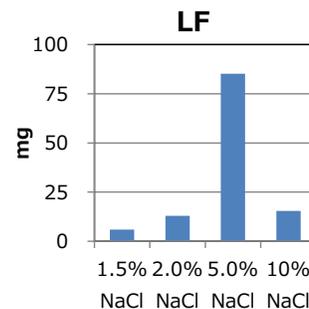
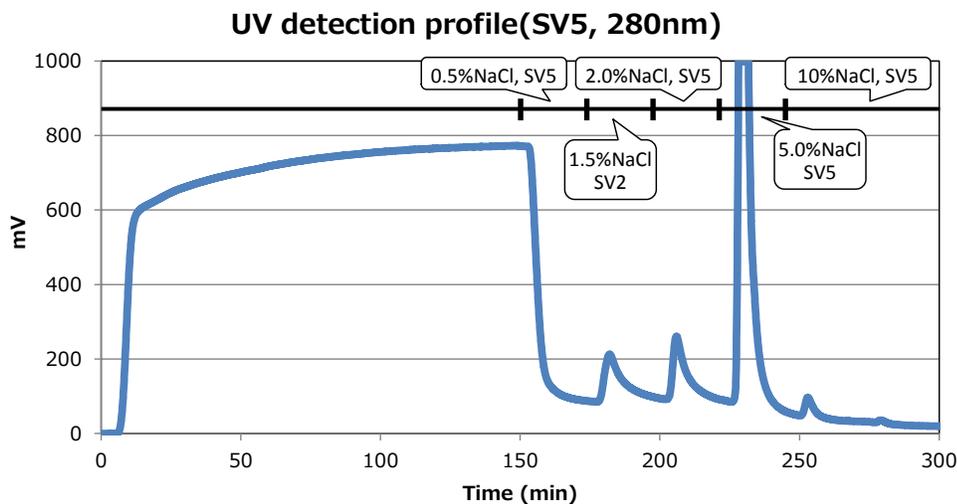


### 3. Flowchart of LF separation



Experimental setup for LF and LPO separation

### 4. Profile at loading and elution (280nm)



Process	LF		LPO	
	Purity	Amount	Purity	Amount
1.5, 2.0%NaCl	80.5%	18.8mg	4.2%	1.59mg
5.0, 10%NaCl	98.1%	100.5mg	-	-
LF Recovery		95.2%		