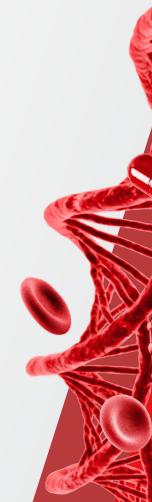


CaptureSelect LambdaXP Affinity Matrix – New Product Introduction

New product introduction – August 2021

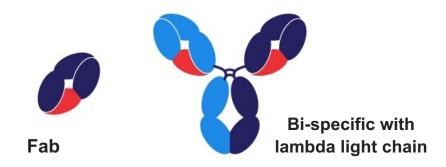


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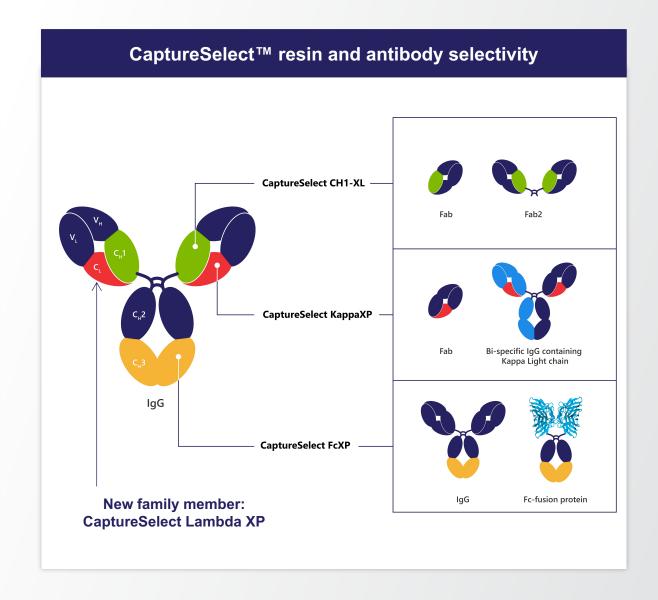
Thermo Fisher

Thermo Scientific CaptureSelect LambdaXP Resin

Next-generation lambda light chain binder

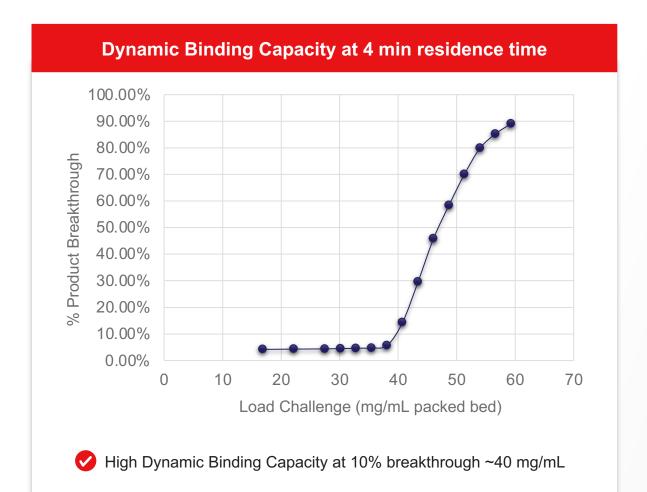


- Generic: 100% lambda subtype coverage for all immunoglobins containing a lambda light chain
- Specific to human, does not bind to bovine antibodies
- High binding capacity: >35 g/L IgG
- Small elution pool volume at pH 3.5 4
- Excellent scalability Animal derived free product





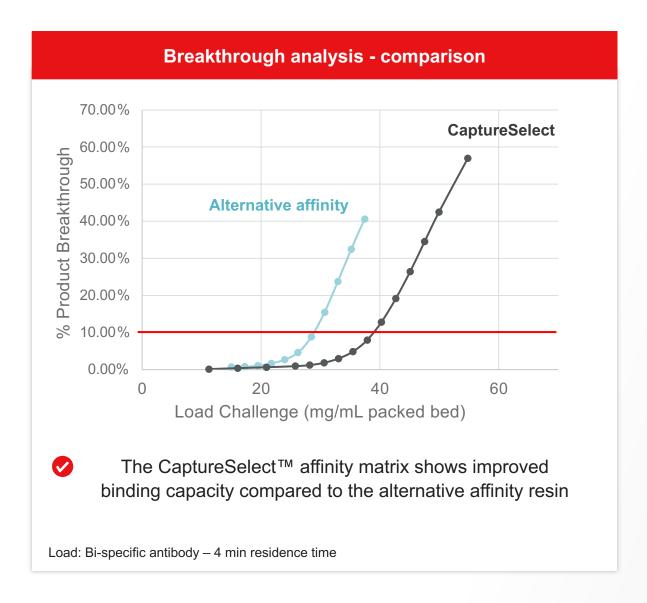
Bi-specific antibody purification using LambdaXP resin

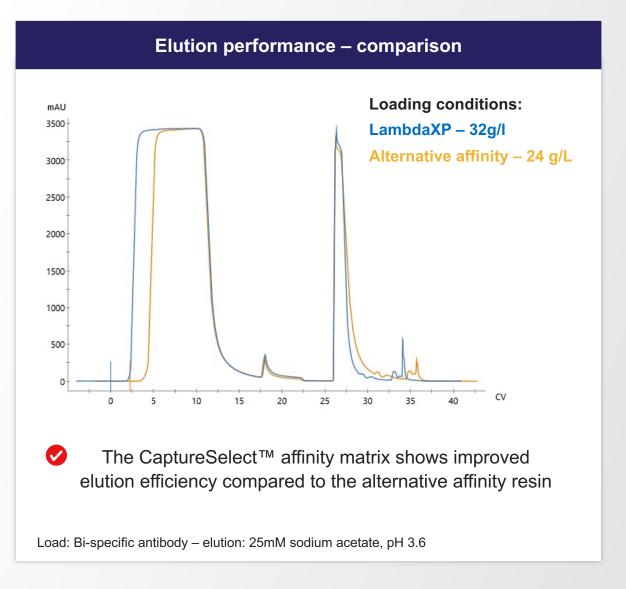


Elution performance – 25 mM sodium acetate mAU 3500-3000 2500 2000 1500 1000-500-20 25 Efficient elution (3 CV) of Bi-specific antibody at pH 3.6 using a load concentration of 32 mg/mL



CaptureSelect LambdaXP - superior performance compared to alternative affinity resin





Process performance compared to alternative affinity resin

Media	Load Challenge (g/L)	Yield (%)	Aggregate by HP-SEC (%)	Fragment by HP-SEC (%)	HCP (ng/mg)	DNA (ng/mg)	0.5-0.5 OD Elution CV
Alternative affinity resin	24	89	1.2	1.0	1951	< 5.6 E-5	4.5
CaptureSelect™ Lambda XP	32	89	1.3	1.4	1662	< 1.2 E-4	3.0

Elution with 25mM sodium acetate, pH 3.6

The CaptureSelect LambdaXP resin shows superior performance and impurity clearance compared to the alternative affinity resins

CaptureSelect LambdaXP advised cleaning strategy



Acidic strip after every run

- 0.1-0.5 M Citric Acid pH 2 (has chelating properties)
- When preferred, other acids can be used



Additional cleaning/sanitization steps (when needed)

- Process optimization mainly depending on type of feed
 - Cleaning after every run, or after 2-5 runs with 20 mM NaOH
- Sanitization with PAB (phosphoric acid, acetic acid, benzyl alcohol) as alternative for NaOH





CaptureSelect LambdaXP resin characteristics and available products

Purification of Ig's, Fab, and Fab2 fragments directly from complex source materials in a single step with high purity and yield.

MAIN RESIN CHARACTERISTICS

Matrix: agarose-based, epoxide activated

Average particle size: 65 ± 10 µm

Ligand: CaptureSelect™ LambdaXP affinity ligand

Ligand immobilization method: Epoxide immobilization of the ligand

Binding capacity: >35 g lgG per liter resin depending on flow rate, column height, and

residence time

Elution conditions: 25 mM sodium acetate, pH 3.5 **Flow characteristics**: 150–300 cm/h (up to 2 bar)

Formulation buffer: 20%(v/v) ethanol



SKU	Product				
2943752005	CS LambdaXP AFF MTR 5 ML				
2943752010	CS LambdaXP AFF MTR 10 ML				
2943752050	CS LambdaXP AFF MTR 50 ML				
1943752250	CS LambdaXP AFF MTR 250 ML				
194375201L	CS LambdaXP AFF MTR 1 L*				
194375205L	CS LambdaXP AFF MTR 5 L*				
810375201	CS LambdaXP Leakage Elisa -1 ASSAY**				
810375210	CS LambdaXP Leakage Elisa -10 ASSAY**				
5943752001	CS LambdaXP MiniChrom 1 ML***				
5943752005	CS LambdaXP MiniChrom 5 ML***				

^{*} Products come with full regulatory support (RSF) enabling use in commercial manufacturing

^{**} Available from September

^{***} Available from October

Thank you

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