

YMC-BioPro Q75 and S75

YMC-BioPro Q75 and S75 are for the Ion Exchange capture material, based on the hydrophilic polymer matrix with a particle size of 75 μm . The material is offered low non-specific adsorption and high dynamic binding capacity. The narrow particle size distribution makes it perfect for high capacity capture steps with low backpressure and highly efficient intermediate purification steps.

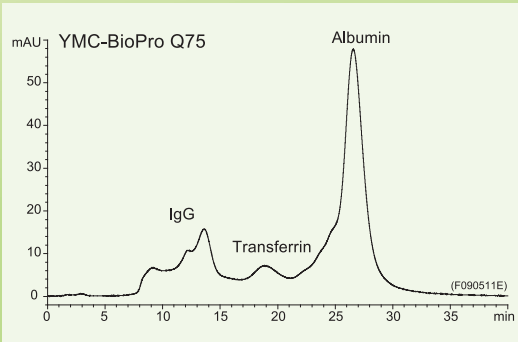
Feature

- Low non-specific adsorption offered by next generation hydrophilic polymer
- SAX(Q75) and SCX(S75) chemists
- Surface modification maximized the performance of ion-exchange
- Excellent dynamic binding capacity (DBC) and recovery
- High capacity with low back-pressure

Specification

	YMC-BioPro Q75	YMC-BioPro S75
Matrix	Hydrophilic polymer bead	
Particle size	75 μm	
Charged group	$-\text{CH}_2\text{N}^+(\text{CH}_3)_3$	$-\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{SO}_3^-$
pH range	2 - 12	2 - 12

Separation of human serum



Excellent efficiency with high dynamic binding capacity

YMC-BioPro Q75 and S75 with 1.4 to 1.8 times higher dynamic binding capacity of protein than commercially available ion-exchanger are perfect for high capacity required capture steps and high efficiency required intermediate purification steps.

Anion exchanger	Particle size (μm)	Ion-exchange capacity (meq/mL-resin)	DBC*1 (mg/mL-resin)
YMC-BioPro Q75	75	0.13	187
Company A (porous Q type)	90	0.19	102

Cation exchanger	Particle size (μm)	Ion-exchange capacity (meq/mL-resin)	DBC*1 (mg/mL-resin)
YMC-BioPro S75	75	0.12	187
Company A (porous S type)	90	0.13	134

*1 Dynamic binding capacities were determined at 10% breakthrough under following conditions:

Column : 50 X 4.6 mm I.D.
 Linear velocity : 3.0 cm/min (180 cm/hr)
 Detection : UV at 280 nm

for anion-exchange resin

Equilibration buffer : 20 mM Tris-HCl (pH 8.6)
 Elution buffer : 0.5 M NaCl in equilibration buffer
 Sample : 1.5 mg/mL BSA in equilibration buffer

for cation-exchange resin

Equilibration buffer : 20 mM Glycine-NaOH (pH 9.0)
 Elution buffer : 0.5 M NaCl in equilibration buffer
 Sample : 1.0 mg/mL Lysozyme in equilibration buffer

Ordering Information

Product	Particle size	Code	Available Size				
			50 mL	250 mL	1 L	5 L	25 L
YMC-BioPro Q75	75 μm	QAA0S75	*	*	*	*	*
YMC-BioPro S75	75 μm	SPA0S75	*	*	*	*	*