

# Adsorbent Selection Guide

Modality	Binding interaction	Usage	Adsorbent Recommendation	
Antibodies	Affinity	Kappa & Lambda light chains, IgGs and fragments, Fab fragments, F(ab') <sub>2</sub> , ScFv, domain antibodies, antibody-drug conjugates, bispecifics	Fabsorbent™	
	AEX	Primary capture, host cell protein removal	DEAE/Q PuraBead®	
	HIC	Host cell DNA, aggregates	Phenyl/Hexyl/Butyl/Octyl PuraBead®	
	MMC (HIC & HB)	Host cell proteins, host cell DNA, aggregates	HCPure™	
Plasmid	AEX	pDNA capture	DEAE PuraBead®	
	HIC	Polishing (separation of supercoiled pDNA)	Hexyl PuraBead®	
Plasma Derived Therapeutics	Affinity	Isoagglutinin removal	Isoclear A™ & Isoclear B™	
		Recombinant albumin capture (high ligand density)	Mimetic Blue® SA HL	
		Plasma derived albumin capture (high selectivity)	Mimetic Blue® SA HF	
		Albumin fusion protein	AlbuPure®	
	IVIG	IVIG	Mabsorbent®	
	AEX	Primary capture blood clotting factors (requires affinity polish)	Q PuraBead®	
CEX	C1-esterase inhibitor protein capture	CM PuraBead®		
HIC	C1-esterase inhibitor protein polish	Phenyl/Hexyl/Butyl/Octyl PuraBead®		
Recombinant Proteins, Enzymes, Others	Affinity	Fc region	Mabsorbent®	
		Kappa & Lambda light chains, IgGs and fragments, Fab fragments, F(ab') <sub>2</sub> , ScFv, domain antibodies, antibody-drug conjugates, bispecifics	Fabsorbent™	
		Botulinum toxin purification	Matrix 215	
		Insulin purification	Insulin	
		Alkaline phosphatase purification	Mimetic Blue® AP	
		Phosphate binding protein purification (bind phosphate groups)	PE PuraBead®	
		AEX	Primary capture, Host cell protein removal	DEAE/Q PuraBead®
		HIC	Host cell DNA, aggregates	Phenyl/Hexyl/Butyl/Octyl PuraBead®
		MMC (HIC & HB)	Host cell proteins, host cell DNA, aggregates	HCPure™
		Endotoxin	Endotoxin from <i>E. coli</i>	EtoxiClear®
Serine Protease	Serine protease capture	p-Aminobenzamidine		
Glycosolated Proteins	Glycoprotein and glycosolated protein removal	Aminophenylboronate		
AAV	CEX	AAV capture	SP PuraBead®	
	MMC	HCP removal	HCPure™	
	AEX	Empty/Full separation	Q PuraBead®	

For more information please visit our website at [www.astreabioseparations.com](http://www.astreabioseparations.com) or contact us at [sales@astrea-bio.com](mailto:sales@astrea-bio.com)

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