

HPLC Method Reference

Separation	Sepax Column	Typical Running Condition
Antibody Charge Variants	Antibodix WCX NP5 Proteomix SCX NP5	A: 10 mM Phosphate buffer, pH 7.5 B: A + 0.5 M NaCl
Antibody Aggregates and Fragments	Zenix SEC-300 Zenix-C SEC 300	150 mM Phosphate buffer (pH 7.0)
ADC DAR	Proteomix HIC Butyl	A: 2.0 M Ammonium Sulfate, 0.025 M Sodium Phosphate, pH 7.0 B: 0.025 M Sodium Phosphate, pH 7.0 C: 100% IPA
ADC Free Drug	Zenix-C SEC 80	50 mM NH ₄ Ac:ACN=80:20
Bispecific Antibody Mispair, Homodimer	BioMix SEC 300	PB (8.1 mM Na ₃ PO ₄ , 1.5 mM K ₃ PO ₄ , 2.7 mM KCl, and 137 mM NaCl, pH 7.4) Addition of up to 300 mM NaCl to optimize
mRNA	SRT SEC-1000	150 mM Phosphate buffer (pH 7.0)
AAV, VLP	SRT SEC-500, 1000, 2000	150 mM Phosphate buffer (pH 7.0)
Full and Empty Capsid DNA/RNA	Proteomix WAX NP5 Proteomix SAX NP5	A: 20-200 mM Bis-Tri Propane (pH 8-10) or 20-50 mM TRIS (pH 8) B: 2.0-20 mM MgCl ₂ C: (A+B) + 1.0 M (CH ₃) ₄ NCl (TMAC) or 1.0 M (C ₂ H ₅) ₄ NCl (TEAC) or 0.5 M NaCl D: H ₂ O
Peptide/Insulin/GLP	Zenix SEC 80, 100, 150 Bio C18	(SEC) 0.1% Arginine:ACN:HAc = 65:20:15 (v/v) (C18) A: 50% ACN (0.1% TFA); B: 90% ACN (0.1% TFA)
IgM	SRT SEC-500	150 mM Phosphate buffer (pH 7.0)
Antibody Titer Determination and Quantification	ProAqa Excel	A: 50 mM Sodium Phosphate, 150 mM NaCl (pH 7.0) B: 100 mM Glycine (pH 2.5)
Tween Trap	TweenTrap	150 mM Phosphate buffer (pH 7.0)
Tween Quantification	Monomix H2P-SAX	A: 2.0% formic acid in H ₂ O; B: 2.0% formic acid in IPA
Poloxamer	Poly RP-100 SRT-C SEC-150 Monomix H2P-SAX	(PolyRP) A: 0.1% TFA, B: 0.1% TFA ACN (SEC) 20 mM NH ₄ Ac, pH 7.0; (H2P-SAX) A: 2.0% formic acid in H ₂ O; B: 2.0% formic acid in IPA;
Carbohydrate	Carbomix Ca (5 μm, 8%, 7.8 x 300 mm)	H ₂ O
Sugar and Alcohol	Carbomix-H (10 μm, 5%, 7.8 x 300 mm)	2.5 mM H ₂ SO ₄

