

Acclaim™ Column Selection Guide

Please refer to www.thermofisher.com/LCcolumns for more information

		General Applications										Specific Applications										Example Applications	
		Acclaim 120 C18	Acclaim 120 C8	Acclaim 300 C18	Acclaim Polar Advantage (PA)	Acclaim Polar Advantage II (PA2)	Acclaim C30	Acclaim Phenyl-1	Acclaim Trinity P1	Acclaim Trinity P2	Acclaim Mixed-Mode WAX-1	Acclaim Mixed-Mode WCX-1	Acclaim Mixed-Mode HILIC-1	Acclaim HILIC-10	Acclaim SEC-300 & 1000	Acclaim Organic Acid	Acclaim Surfactant/Plus	Acclaim Carbonyl	Acclaim Explosives E2	Acclaim Carbamate	Acclaim AmG		
General Applications	Neutral Molecules	High hydrophobicity																				Fat-soluble vitamins, PAHs, glycerides	
		Intermediate hydrophobicity																					Steroids, phthalates, phenols, polyphenols
		Low hydrophobicity																					Acetaminophen, urea, polyethylene glycols
	Anionic Molecules	High hydrophobicity																					NSAIDs, phospholipids
		Intermediate hydrophobicity																					Aspirin, alkyl acids, aromatic acids
		Low hydrophobicity																					Small organic acids, e.g. acetic acids
	Cationic Molecules	High hydrophobicity																					Antidepressants
		Intermediate hydrophobicity																					Beta blockers, benzidines, alkaloids
		Low hydrophobicity																					Antacids, pseudoephedrine, biogenic amines
	Amphoteric/Zwitterionic Molecules	High hydrophobicity																					Phospholipids
		Intermediate hydrophobicity																					Amphoteric surfactants, peptides
		Low hydrophobicity																					Amino acids, aspartame, small peptides
	Mixtures of Neutral, Anionic, Cationic Molecules	Neutrals and acids																					Artificial sweeteners
		Neutrals and bases																					Cough syrup
Acids and bases																						Drug active ingredient with counterion	
Neutrals, acids, and bases																						Combination pain relievers, PEG	
Surfactants	Anionic																					SDS, LAS, laurth sulfates	
	Cationic																					Quats, benzalkonium in medicines	
	Nonionic																					Triton X-100 in washing tank	
	Amphoteric																					Cocoamidopropyl betaine	
	Hydrotropes																					Xylenesulfonates in handsoap	
	Surfactant blends																					Nonionic and anionic surfactants	
Organic Acids	Hydrophobic																					Aromatic acids, fatty acids	
	Hydrophilic																					Organic acids in soft drinks, pharmaceuticals	
Environmental Contaminants	Explosives																					U.S. EPA Method 8330, 8330B	
	Carbonyl compounds																					U.S. EPA 1667, 555, OT-11; CA CARB 1004	
	Phenols																					Compounds regulated by U.S. EPA 604	
	Chlorinated/Phenoxy acids																					U.S. EPA Method 555	
	Triazines																					Compounds regulated by U.S. EPA 619	
	Nitrosamines																						Compounds regulated by U.S. EPA 8270
	Benzidines																					U.S. EPA Method 605	
	Perfluorinated acids																					Dionex TN73	
	Microcystins																						ISO 20179
	Isocyanates																						U.S. OSHA Methods 42, 47
Carbamate insecticides																						U.S. EPA Method 531.2	
Vitamins	Water-soluble vitamins																					Vitamins in dietary supplements	
	Fat-soluble vitamins																					Vitamin pills	
Pharmaceutical Counterions	Anions																					Inorganic anions and organic acids in drugs	
	Cations																					Inorganic cations and organic bases in drugs	
	Mixture of Anions and Cations																					Screening of pharmaceutical counterions	
	API and counterions																					Naproxen Na ⁺ salt, metformin Cl ⁻ salt, etc.	
Industry	Hydrophilic cations																					Antibiotics, aminoglycosides	
	Water soluble Polymers																					PEG, PVP, PAA, PEI,	

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	4.6 x 250 mm	4.6 x 150 mm	4.6 x 100 mm	4.6 x 50 mm	3.0 x 250 mm	3.0 x 150 mm	3.0 x 100 mm	3.0 x 50 mm	2.1 x 250 mm	2.1 x 150 mm	2.1 x 100 mm	2.1 x 50 mm	2.1 x 30 mm
Reversed-Phase (RP) 3 µm and 5 µm Columns													
Acclaim 120 C8, 2.2 µm							071604	071605	074812	071399	068982	068981	071400
Acclaim 120 C18, 3 µm		059133	059132	059131	070077	063691	076186		076187	059130	059129	059128	
Acclaim 120 C18, 5 µm	059149	059148	059147	059146					059145	059144	059143	059142	
Acclaim 120 C8, 2.2 µm							072620		074811	072617	072616	072615	072614
Acclaim 120 C8, 3 µm		059127	059126	059125	070078	068970	076184			059124	059123	059122	
Acclaim 120 C8, 5 µm	059141	059140	059139	059138					059137	059136		059134	
Acclaim Phenyl-1, 3 µm		071969			074694	071970	074693			071971			
Acclaim Phenyl-1, 5 µm	079697												
Acclaim C30, 3 µm	303056	075723			075726	075724			078664	075725	078665	078666	
Acclaim C30, 5 µm	075718	075719											
Polar Advantage (PA), 2.2 µm								072626	074813	072624	072623	072622	
Polar Advantage (PA), 3 µm		061318			070079	063693		068972		061317	061316	063174	
Polar Advantage (PA), 5 µm	061321	061320		061319									
Polar Advantage II (PA2), 3 µm		063191	078001	063189	070080	063705	078000	068973	077997	063187	077998	077998	
Polar Advantage II (PA2), 5 µm	063199	063197											
Acclaim 300, C18, 3 µm		060266		060265		063684				060264		060263	

Mixed-Mode Analytical Columns													
Acclaim Trinity P1, 3 µm						075563	071387	071388		075564	071389	075565	
Acclaim Trinity P2, 3 µm							085434	085433			085432	085431	
Mixed-Mode WAX-1, 3 µm						070088		071908		070089			
Mixed-Mode WAX-1, 5 µm	064985	064984								067084			
Mixed-Mode WCX-1, 3 µm						070092		071910		070093			
Mixed-Mode WCX-1, 5 µm	068352	068353								068371			

HILIC Analytical Columns													
Mixed-Mode HILIC-1, 3 µm						070090		071912		070091			
Mixed-Mode HILIC-1, 5 µm	066844	066843								066847			
Acclaim HILIC-10, 3 µm		074257				074258				074259			

Acclaim™ Column Selection Guide (continued)

	7.8 x 300 mm	7.8 x 250 mm	4.6 x 300 mm	4.6 x 250 mm	4.6 x 150 mm	4.6 x 100 mm	4.6 x 50 mm	3.0 x 250 mm	3.0 x 150 mm	3.0 x 100 mm	3.0 x 50 mm	2.1 x 250 mm	2.1 x 150 mm	2.1 x 100 mm	2.1 x 50 mm	2.1 x 30 mm
Reversed-Phase (RP) 3 µm and 5 µm Columns (continued)																
Application Specific Columns																
Acclaim Organic Acid, 3 µm									070086				070087			
Acclaim Organic Acid, 5 µm				062902	062903											
Acclaim Surfactant, 3 µm									070084				070085			
Acclaim Surfactant, 5 µm				063203	063201								068123			
Acclaim Surfactant Plus, 3 µm					078950				078951	078952		078953	078954	078955		
Acclaim Surfactant Plus, 5 µm				082768	082768											
Acclaim Explosives E2, 2.2 µm										076227			076226	076225		
Acclaim Explosives E2, 3 µm								070081	070082				070083			
Acclaim Explosives E2, 5 µm				064309												
Acclaim Trinity Q1, 3 µm										079715	083241			079717	083242	
Acclaim Carbamate, 3 µm					072925				072926				072927			
Acclaim Carbamate, 5 µm				072924												
Acclaim Carbonyl, 2.2 µm													077973	077972		
Acclaim Carbonyl, 3 µm								079009	079010				079011			
Acclaim Carbonyl, 5 µm				083214												
Acclaim AmG C18, 3 µm					088757				088755				088753			
Acclaim SEC-1000, 7 µm	079721	079726	079724													
Acclaim SEC-300, 5 µm	079725	079726	079723													

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Guard column information can be found on our website thermofisher.com/LCcolumns