

# Acclaim® Column Selection Guide

Please refer to [www.dionex.com](http://www.dionex.com) for more information

		Reversed-Phase (RP)						Mixed-Mode		HILIC		Application-Specific					Example Applications	
		Acclaim 120 C18	Acclaim 120 C8	Acclaim 300 C18	Acclaim Polar Advantage (PA)	Acclaim Polar Advantage II (PA2)	Acclaim Phenyl-1	Acclaim Trinity P1	Acclaim Mixed-Mode WAX-1	Acclaim Mixed-Mode WCX-1	Acclaim Mixed-Mode HILIC-1	Acclaim HILIC-10	Acclaim Organic Acid	Acclaim Surfactant	Acclaim Explosives E1	Acclaim Explosives E2		Acclaim Carbamate
General Applications	Neutral Molecules	High hydrophobicity																Fat-soluble vitamins, PAHs, glycerides
		Intermediate hydrophobicity																Steroids, phthalates, phenolics
		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, amino sugars
	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
Surfactants	Anionic																SDS, LAS, laureth sulfates	
	Cationic																Quats, benzylalkonium in medicines	
	Nonionic																Triton X-100 in washing tank	
	Amphoteric																Cocoamidopropyl betaine	
	Hydrotropes																Xylenesulfonates in handsoap	
	Surfactant blends																Noionic 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 <sup>+</sup> salt, metformin Cl <sup>-</sup> salt, etc.	

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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 75 mm	3.0 x 50 mm	3.0 x 33 mm	3.0 x 30 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	
<b>Reversed-Phase (RP) 3 µm and 5 µm Columns</b>																	
Acclaim 120 C18, 3 µm		059133	059132	059131	070077	063691		066273	068971	066272			059130	059129	059128		
Acclaim 120 C18, 5 µm	059149	059148	059147	059146								059145	059144	059143	059142		
Acclaim 120 C8, 3 µm		059127	059126	059125	070078	068970							059124	059123	059122		
Acclaim 120 C8, 5 µm	059141	059140	059139	059138								059137	059136	059135	059134		
Polar Advantage (PA), 3 µm		061318			070079	063693		066275	068972	066274				061317	061316	063174	
Polar Advantage (PA), 5 µm	061321	061320		061319													
Polar Advantage II (PA2), 3 µm		063191		063189	070080	063705		066277	068973	066276				063187			
Polar Advantage II (PA2), 5 µm	063199	063197															
Acclaim Phenyl-1, 3 µm		071969			074694	071970	074693		071972					071971			
Acclaim 300, C18, 3 µm		060266		060265		063684								060264		060263	
<b>Acclaim RSLC 2.2 µm Columns</b>																	
Acclaim RSLC 120 C18, 2.2 µm							071604		071605			071606	074812	071399	068982	068981	071400
Acclaim RSLC 120 C8, 2.2 µm							072620		072619			072618	074811	072617	072616	072615	072614
Polar Advantage (PA), 2.2 µm							072627		072626			072625	074813	072624	072623	072622	072621
Polar Advantage II (PA2), 2.2 µm							071607		071608			071609	074814	071401	068990	068989	071402
<b>Mixed-Mode Analytical Columns</b>																	
Acclaim Trinity P1, 3 µm							071387		071388						071389		
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			
<b>HILIC Analytical Columns</b>																	
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			
<b>Application Specific Columns</b>																	
Acclaim Organic Acid, 3 µm						070086								070087			
Acclaim Organic Acid, 5 µm	062902 (4.0x250)	062903 (4.0x150)															
Acclaim Surfactant, 3 µm						070084								070085			
Acclaim Surfactant, 5 µm	063203	063201												068123			
Acclaim Explosives E2, 3 µm					070081	070082								070083			
Acclaim Explosives E1, 5 µm	064305																
Acclaim Explosives E2, 5 µm	064309																
Acclaim Carbamate, 3 µm		072925				072926								072927			
Acclaim Carbamate, 5 µm	072924																