Acclaim® Column Selection Guide

Please refer to 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	■	■	■	■	■	■	■	■		■							*Asprin, 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*
Specific Applications	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							■	■									*Inorgaic anions and organic acids in drugs*
		Cations							■		■								*Inorgaic 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.*

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	4.6 × 250 mm	4.6 × 150 mm	4.6 × 100 mm	4.6 × 50 mm	3.0 × 250 mm	3.0 × 150 mm	3.0 × 100 mm	3.0 × 75 mm	3.0 × 50 mm	3.0 × 33 mm	3.0 × 30 mm	2.1 × 250 mm	2.1 × 150 mm	2.1 × 100 mm	2.1 × 50 mm	2.1 × 30 mm
Reversed-Phase (RP) 3 µm and 5 µm Columns																
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	
Acclaim RSLC 2.2 µm Columns																
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
Mixed-Mode Analytical Columns																
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			
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			
Application Specific Columns																
Acclaim Organic Acid, 3 µm						070086							070087			
Acclaim Organic Acid, 5 µm	062902 (4.0×250)	062903 (4.0×150)														
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															

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