

Acclaim™

- Ultra-pure, porous spherical silica
- Novel surface chemistries for different selectivities
- LC-MS compatible
- Wide range of phases

Acclaim™ HPLC columns, developed by Dionex, are now sold under the Thermo Scientific brand. Acclaim phases are based on high purity, porous silica particles (2.2, 3 and 5µm), with advanced and innovative column bonding technologies. This provides complementary selectivity, high column efficiencies and symmetrical peaks. Columns for reversed-phase, HILIC, mixed-mode and application specific analyses are available.

Acclaim Reversed-Phase and HILIC Phases

Acclaim Phase	Chemistry	Endcapped	Particle Size (µm)	Pore Size (Å)	Surface Area (m ² /g)	Carbon Load (%)	pH Range
120 C18	C18	Yes	2.2, 3, 5	120	300	18	2 - 8
300 C18	C18	Yes	3	300	100	8	2.5 - 7.5
C8	C8	Yes	2.2, 3, 5	120	300	11	2 - 8
C30	C30	Yes	3, 5	200	200	13	2 - 8
Phenyl-1	Alkyl aromatic	Yes	3	120	300	13	2 - 8
PolarAdvantage	Embedded sulphonamide	Yes	2.2, 3, 5	120	300	16	2 - 8
PolarAdvantage II	Embedded amide	Yes	2.2, 3, 5	120	300	16	1.5 - 10.5
HILIC-10	Proprietary	No	3	120	300	8	2 - 8

Acclaim RSLC 2.2µm columns for **Rapid Separation Liquid Chromatography** are designed for high throughput, high efficiency separations and are compatible with UHPLC and standard HPLC systems.

Acclaim C30 is designed to provide high shape selectivity for separating hydrophobic structurally related isomers and unique selectivity complementary to other reversed-phase columns. It is compatible with highly aqueous eluents.

Acclaim PolarAdvantage (PA) features a patented bonding chemistry that incorporates a polar sulphonamide group with an ether linkage near the silica surface. Acclaim PA columns are compatible with 100% aqueous eluents and offer unique selectivity and good peak shape for acidic, basic and neutral analytes. Figure 15 shows the fast analysis of phenols according to EPA Method 604.

Acclaim PolarAdvantage II (PA2) columns feature a patented surface chemistry that incorporates an amide-embedded polar group and multi-point attachment between the ligands and silica surface. This unique chemistry provides enhanced hydrolytic stability from pH 1.5 to 10.5 with 100% aqueous eluents. Acclaim PA2 is specifically designed to withstand high pH conditions, making it a good choice for the separation of both basic and acidic analytes.

Acclaim HILIC-10 is designed for separating highly hydrophilic molecules by HILIC. The phase is based on high purity silica covalently modified with a proprietary hydrophilic layer. Acclaim HILIC-10 is compatible with up to 20% aqueous eluent, while maintaining affinity for polar analytes. Columns can be operated in the primary HILIC mode or, alternatively, in normal-phase mode. Figure 16 shows class separation by normal-phase, where triglycerides elute using 1% IPA, diglycerides using 4% IPA and monoglycerides using 13% IPA.

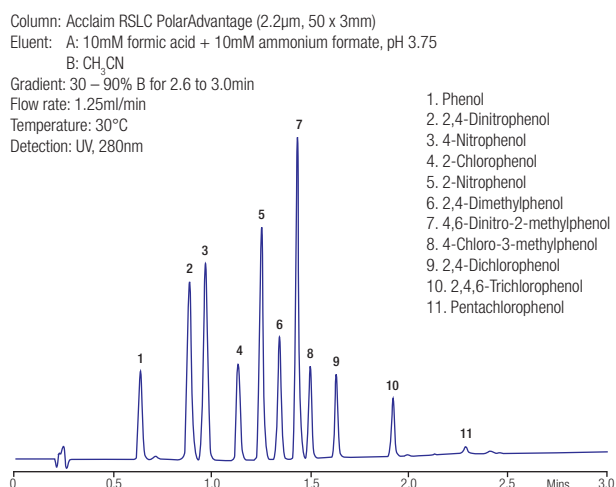


Figure 15. Phenols EPA 604 fast analysis

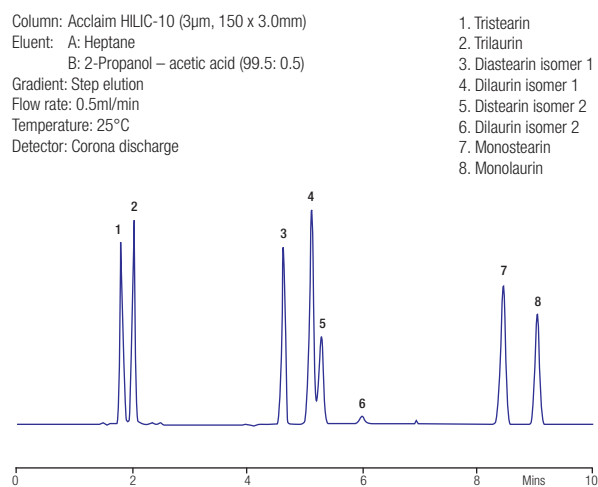


Figure 16. Separation of glycerides on Acclaim HILIC-10

Ordering Information – Acclaim™

Please contact Hichrom for ordering information for 2.2µm particle size columns and column dimensions not listed below.

Acclaim Reversed-Phase and HILIC Columns

Acclaim Phase	Column Dimensions ¹ (mm)				Guard Cartridges ²
3µm	50 x 2.1	100 x 2.1	150 x 2.1	250 x 2.1	10 x 2.1mm (2/pk)
120 C18	059128	059129	059130	076187	-
120 C8	059122	059123	059124	076185	-
C30	-	-	075725	-	075722
Phenyl-1	078016	078015	071971	078014	071975
PA (PolarAdvantage)	063174	061316	061317	076215	-
PA2 (PolarAdvantage II)	077999	077998	063187	077997	-
HILIC-10	-	-	074259	-	-
5µm					
120 C18	059142	059143	059144	059145	069689
120 C8	059134	059135	059136	059137	069688

Acclaim Phase	Column Dimensions ¹ (mm)				Guard Cartridges ²
3µm	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	10 x 4.6mm (2/pk)
120 C18	059131	059132	059133	-	-
120 C8	059125	059126	059127	-	-
C30	-	-	075723	-	075720
Phenyl-1	078018	078017	071969	-	071973
PA (PolarAdvantage)	-	076216	061318	-	-
PA2 (PolarAdvantage II)	063189	078001	063191	-	-
HILIC-10	-	-	074257	-	-
5µm					
120 C18	059146	059147	059148	059149	069695
120 C8	059138	059139	059140	059141	069696
C30	-	-	075719	075718	-
PA (PolarAdvantage)	061319	-	061320	061321	069698
PA2 (PolarAdvantage II)	-	-	063197	063199	069699

¹ Other column dimensions available

² Use with guard cartridge holder V-2, p/n 069580

and column coupler V-2 p/n 074188

Acclaim Mixed-Mode Phases

Phase	Column Dimensions ¹ (mm)				
3µm	50 x 2.1	100 x 2.1	150 x 2.1	50 x 3.0	150 x 3.0
Mixed-Mode WAX-1	-	-	070089	071908	070088
Mixed-Mode WCX-1	-	-	070093	071910	070092
Mixed-Mode HILIC-1	-	-	070091	071912	070090
Trinity P1	075565	071389	075564	071388	075563

Phase	Column Dimensions ¹ (mm)			Guard Cartridges ²	Guard Cartridges ²
5µm	150 x 2.1	150 x 4.6	250 x 4.6	10 x 2.1mm (2/pk)	10 x 4.6mm (2/pk)
Mixed-Mode WAX-1	067084	064984	064985	069686	069704
Mixed-Mode WCX-1	068371	068353	068352	-	069705
Mixed-Mode HILIC-1	066847	066843	066844	069694	069706

Acclaim Speciality Phases³

Phase	Column Dimensions ¹ (mm)			
3µm	150 x 2.1	150 x 3.0	250 x 3.0	150 x 4.6
Organic Acid	070087	070086	-	-
Surfactant	070085	070084	-	-
Explosives E2	070083	070082	070081	-
Carbamate	072927	072926	-	072925

Phase	Column Dimensions ¹ (mm)			Guard Cartridges ²	Guard Cartridges ²
5µm	150 x 2.1	150 x 4.6	250 x 4.6	10 x 2.1mm (2/pk)	10 x 4.6mm (2/pk)
Organic Acid	-	062903 ⁴	062902 ⁴	-	069700
Surfactant	068123	063201	063203	069693	069701
Explosives E1	-	-	064305	-	069702
Explosives E2	-	-	064309	-	069703
Carbamate	-	-	072924	072930	072928

¹ Other dimensions available

² Use with guard cartridge holder V-2, p/n 069580

and column coupler V-2 p/n 074188

³ Please enquire for ordering information for Acclaim Carbonyl columns

⁴ 4.0mm i.d.