

Application Specific HPLC and UHPLC Columns

Innovative chemistries tailored for challenging and critically important applications

Application specific columns utilize novel and unique chemistries to provide superior resolution with ease of use for key pharmaceutical and environmental applications.

Acclaim AmG C18

- Aminoglycoside antibiotics separation

Acclaim Trinity P1 and P2

- API & counterion analysis

Acclaim organic acid

- Fast organic acid analysis

Acclaim surfactant and surfactant plus

- Separation of surfactants

Acclaim explosives

- Separation of explosive residues

Acclaim Trinity Q1

- Diquat and paraquat analysis

Acclaim Carbamate

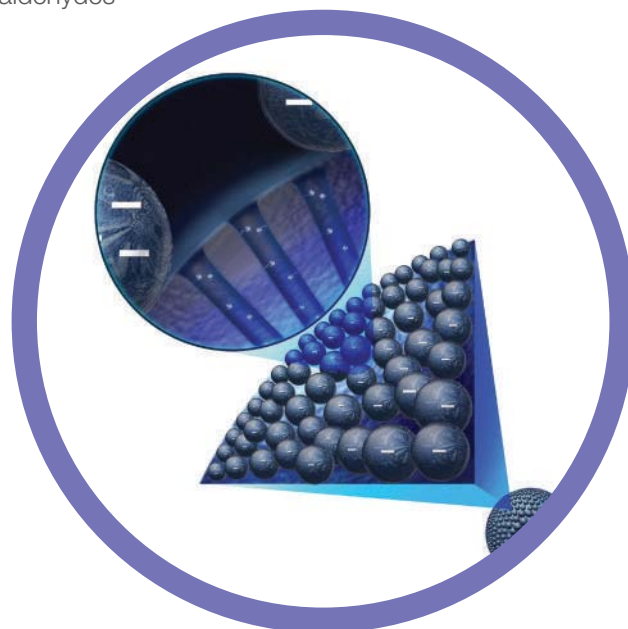
- The separation of carbamate pesticides

Acclaim Carbonyl C18

- Separation of DNPH derivatives of aldehydes and ketones

Download the Acclaim column selection guide [here](#)

For more information, visit thermofisher.com/acclaim



Acclaim AmG C18

Designed to provide rugged and reproducible reversed-phase chromatography of aminoglycoside antibiotics.

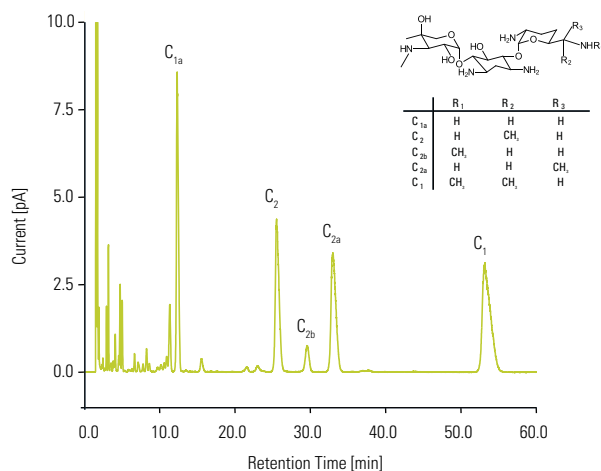
- Rugged and reproducible
- Excellent selectivity for the HPLC of aminoglycosides
- Superior resistance to acidic conditions for long column lifetime
- Easy to use with only aqueous mobile phase; TFA only, or TFA/HFBA or PFPA is needed
- Compatible with simple rugged methods; no solvents are required
- High efficiency and throughput

Aminoglycoside antibiotics are commonly used as clinical and veterinary medicines to treat bacterial infections. HPLC using ion-pairing reversed-phase separations is an effective technique for simultaneous qualitative and quantitative determination of aminoglycosides.

The Acclaim AmG C18 column is designed to provide excellent stability, selectivity and high resolution. It has a unique surface, a polymer encapsulated silica covalently bonded with a C18 ligand. This ensures ultra-stability when exposure to low pH (<1) and high temperature separation conditions.



Isocratic separation of gentamicin sulfate using 100 mM TFA as the mobile phase



Acclaim AmG C18, 3μm, 150 x 3.0mm

Mobile Phase:	100 mM TFA
Temperature:	30°C
Flow Rate:	0.425 mL/min
Injection Volume:	2μL
Detection:	Corona Veo RS (Filter = 5.0 s; Evaporation Temp = 35 °C; Data Rate = 5 Hz; Power Function = 1.00)
Sample:	Gentamicin (1 mg/mL)

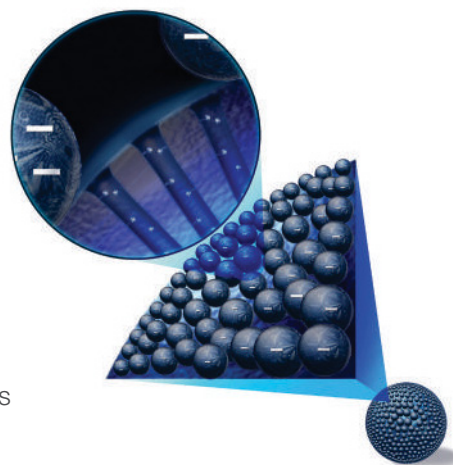
Acclaim AmG C18

Particle Size (μm)	Format	Length (mm)	2.1mm ID	3.0mm ID	4.6mm ID
3	Guard Cartridges (2/pk)	10	088754	088756	088758
	HPLC Column	150	088753	088755	088757
Guard Cartridge Holder			069580	069580	069580

Acclaim Trinity P1

Mixed mode column technology combining reversed-phase, anion exchange and cation exchange functionality on a single support

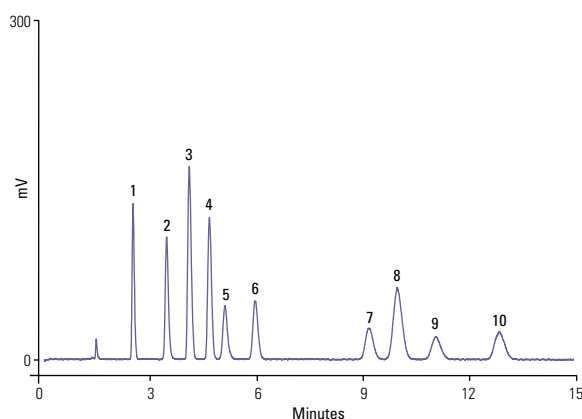
- Ideal selectivity for simultaneous separation of API and counterion
- Adjustable selectivity by mobile phase ionic strength, electrolyte type, pH, and organic solvent
- Low bleed; compatible with MS, CAD and ELSD
- Retention of hydrophilic ionic and ionizable analytes without ion-pairing reagents
- Greater flexibility in method development: each retention mechanisms can be controlled independently



The Thermo Scientific™ Acclaim™ Trinity™ P1 HPLC column is designed with Nanopolymer Silica Hybrid (NSH) technology, which results in a multimode surface chemistry ideal for the simultaneous separation of drugs and their counterions. The surface chemistry concurrently provides reversed-phase, cation exchange, and anion exchange functionalities. The result is maximum flexibility in method development. Separations can be optimized easily by adjusting the chromatographic parameters (mobile phase pH, ionic strength, and organic strength).

Download the Acclaim column selection guide [here](#)

Simultaneous separation of pharmaceutical counterions



Acclaim Trinity P1, 3μm, 100 x 3.0mm

Mobile Phase:	60/40 v/v CH ₃ CN/20mM (total) NH ₄ OAc, pH 5
Temperature:	30°C
Flow Rate:	0.5mL/min
Injection Volume:	2μL
Detection:	Corona ultra (Gain = 100 pA; Filter = med; Neb Temp = 30°C)
Analytes:	1. Choline
(50 to 100ppm)	2. Tromethamine
	3. Sodium
	4. Potassium
	5. Meglumine
	6. Mesylate
	7. Nitrate
	8. Chloride
	9. Bromide
	10. Iodide

Acclaim Trinity P1

Particle Size (μm)	Format	Length (mm)	2.1mm ID	3.0mm ID
3	Guard Cartridges (2/pkg)	10	071391	071390
	HPLC Column	50	075565	071388
		100	071389	071387
		150	075564	075563

Acclaim guard holder

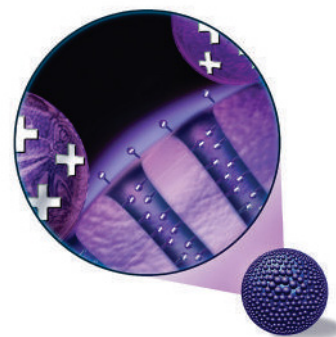
Format	Cat. No.
Acclaim SST Guard Cartridge Holder V-2	069580
Acclaim Guard Kit (Holder and coupler) V-2	069707
Guard to Analytical Column Coupler V-2	074188

For more information, visit thermofisher.com/acclaim

Acclaim Trinity P2

Mixed-mode column technology; hydrophilic interaction combining HILIC, anion exchange and cation exchange functionalities

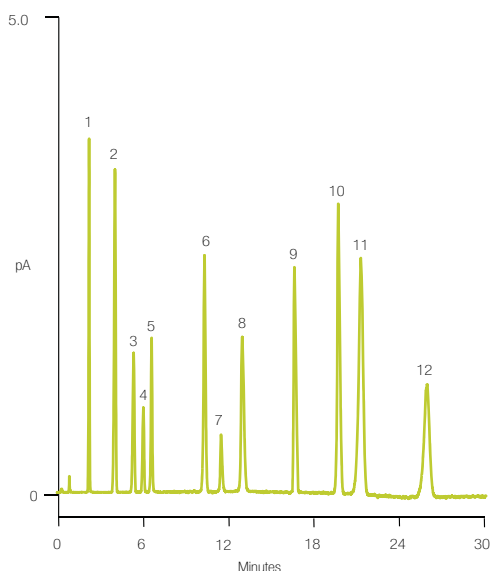
- Ideal for separating pharmaceutical counterions, including monovalent and divalent cations or anions
- Selectivity complementary to the Trinity P1 column
- Low column bleed, compatible with CAD and MS
- Hydrolytically stable
- High efficiency



The Acclaim Trinity P2 is a unique, high-efficiency, silica-based column specifically designed for separation of pharmaceutical counterions, including monovalent and divalent cations or anions. This column is based on Nanopolymer Silica Hybrid (NSH) technology, which consists of high-purity porous spherical silica particles coated with charged nanopolymer particles. The inner-pore area of the silica bead is modified with a covalently bonded organic layer that provides cation-exchange retention, while the outer surface is modified with anion-exchange nanopolymer beads.

Acclaim Trinity P2 column is aimed to complement Acclaim Trinity P1 to provide a total solution for pharmaceutical counter ion analysis by HPLC.

Pharmaceutical-related anions and cations



Acclaim Trinity P2, 3µm, 100 x 3.0mm

Mobile Phase: D.I. water and 100 mM NH₄OFm, pH 3.65 gradient

Temperature: 30°C

Flow Rate: 0.60 mL/min

Injection Volume: 2µL

Detection: Corona Veo Charged Aerosol Detector

Analytes:

1. Phosphate
2. Sodium
3. Potassium
4. Chloride
5. Malate
6. Bromide
7. Nitrate
8. Citrate
9. Fumarate
10. Sulfate
11. Magnesium
12. Calcium

Samples: 0.02 – 0.10 mg/mL each in D.I. water

Time (min)	H ₂ O	0.1 M Ammonium formate, pH3.65
-10	0.760	1.474
0	80	20
2	80	20
22	0	100
30	0	100

Acclaim Trinity P2

Particle Size (µm)	Format	Length (mm)	2.1mm ID	3.0mm ID
3	Guard Cartridges (2/pk)	10	085435	085436
	HPLC Column	50	085431	085433
		100	085432	085434

Acclaim guard holder

Format	Cat. No.
Acclaim Guard Cartridge Holder V-2	069580
Acclaim Guard Kit (Holder and coupler) V-2	069707
Guard to Analytical Column Coupler V-2	074188

Acclaim organic acid

Optimized and application-tested for the analysis of hydrophilic organic acids

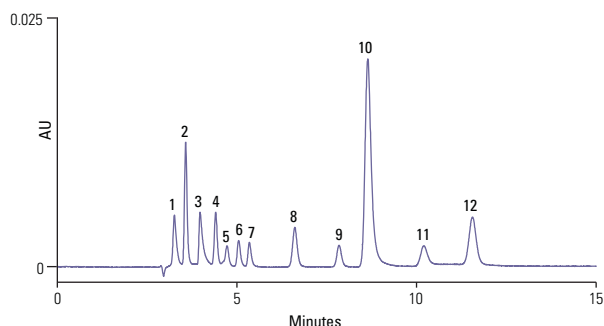
- Tested to guarantee consistent hydrophilic organic acid separations
- Compatible with 100% aqueous mobile phases
- Hydrolytic stability at low-pH conditions
- Ideal selectivity for separating a wide spectrum of organic acids
- Excellent column efficiency and peak shapes for organic acids



The Acclaim Organic Acid (OA) is a silica-based reversed-phase column designed for high-efficiency, high-throughput organic acids analysis. It offers unparalleled performance for separating hydroxyl aliphatic and aromatic organic acids.

The Acclaim OA is the recommended column for determining small hydrophilic organic acids, C1 to C7 aliphatic acids, and hydrophilic aromatic acid and is also valuable for the analysis and quality assurance of food and beverage products, pharmaceutical preparations, plating baths, and manufacturing chemicals, chemical intermediates, and environmental samples.

Hydrophilic organic acids



Acclaim Organic Acid, 5µm, 4 × 250mm

Mobile Phase: 100mM Na₂SO₄, pH 2.65
(adjusted with methanesulfonic acid)

Temperature: 30°C

Flow Rate: 0.6mL/min

Injection Volume: 5µL

Detection: UV, 210nm

Analytes:

1. Oxalic acid 15mg/L (ppm)
2. Tartaric acid 120
3. Formic acid 180
4. Malic acid 120
5. iso-Citric acid 120
6. Lactic acid 180
7. Acetic acid 120
8. Citric acid 120
9. Succinic acid 120
10. Fumaric acid 7
11. cis-Aconitic acid *
12. trans-Aconitic acid *

* 7ppm total for cis and trans isomers

Download the Acclaim column selection guide [here](#)

Acclaim organic acid

Particle Size (µm)	Format	Length (mm)	2.1mm ID	3.0mm ID	4.0mm ID
3	HPLC Column	150	070087	070086	—
5	Guard Cartridges (2/pkg)	10	—	071987	069700
	HPLC Column	150	—	—	062903
		250	—	—	062902

Acclaim guard holder

Format	Cat. No.
Acclaim SST Guard Cartridge Holder V-2	069580
Acclaim Guard Kit (Holder and coupler) V-2	069707
Guard to Analytical Column Coupler V-2	074188

For more information, visit thermofisher.com/acclaim

Acclaim surfactant

Excellent performance for separating a broad range of surfactants

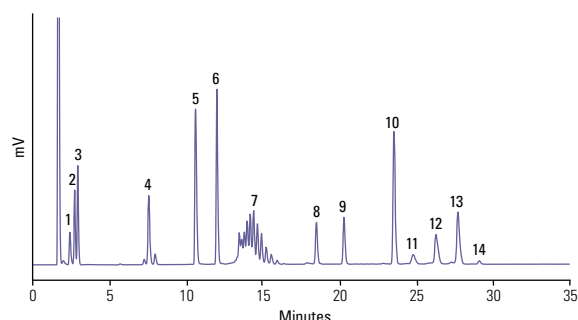
- Ideal selectivity for separation of anionic, nonionic, cationic and amphoteric surfactants
- Excellent peak shapes, especially for cationic surfactants
- Compatible with highly aqueous mobile phases
- Improved resolution for ethoxylated surfactants
- Rugged separations under a variety of conditions



The Acclaim Surfactant columns are the first generation high-efficiency, silica-based columns designed specifically for separating a wide variety of surfactants, including anionic, cationic, nonionic, ethoxylated and amphoteric surfactants using UV, ELSD or RI detection.

Surfactants are widely used in industrial, agricultural, and pharmaceutical markets, in products as diverse as pesticides, detergent powders, petroleum products, cosmetics, and pharmaceuticals. The Acclaim Surfactant column was designed specifically for HPLC separation of these surfactants.

Inorganic anion, hydrotropes, cationic, nonionic, amphoteric, and anionic surfactants



Acclaim Surfactant, 5µm, 150 x 4.6mm

Mobile Phase A: CH₃CN,

Mobile Phase B: 0.1 M NH₄OAc, pH 5.4

Gradient: 25% to 85% A in 25min,
then hold 85% A for 10min

Temperature: 30°C

Flow Rate: 1mL/min

Injection Volume: 25µL

Detection: ELS detector

Analytes:

1. Chloride
2. Bromide
3. Nitrate
4. Xylene sulfonate
5. Laurylpyridinium chloride
6. Lauryldimethylbenzyl-ammonium chloride
7. Triton X-100
8. Cetyl betaine
9. Decyl sulfate
10. Dodecyl sulfate
11. C₁₀-LAS
12. C₁₁-LAS
13. C₁₂-LAS
14. C₁₃-LAS

Acclaim surfactant

Particle Size (µm)	Format	Length (mm)	2.1mm ID	3.0mm ID	4.6mm ID
3	HPLC Column	150	070085	070084	—
5	Guard Cartridges (2/pk)	10	069693	071991	069701
	HPLC Column	150	068123	—	063201
		250	—	—	063203

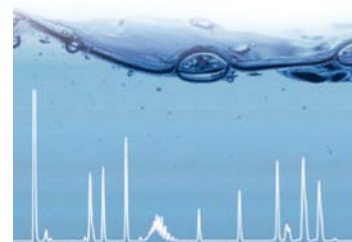
Acclaim guard holder

Description	Cat. No.
Acclaim SST Guard Cartridge Holder V-2	069580
Acclaim Guard Kit (Holder and coupler) V-2	069707
Guard to Analytical Column Coupler V-2	074188

Acclaim surfactant plus

Column of choice for surfactant analysis using higher sensitivity detection: performance, versatility, throughput

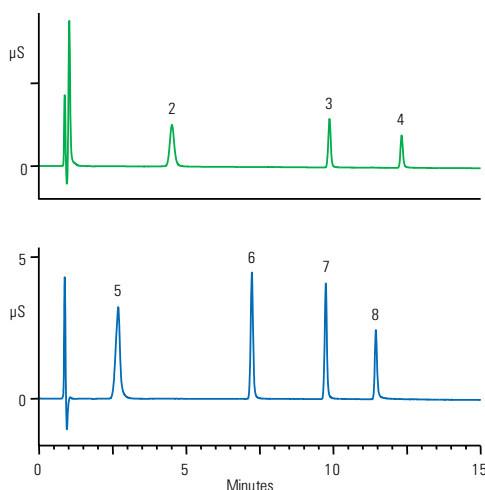
- Ideal selectivity for simultaneous separation of anionic, nonionic, cationic, and amphoteric surfactants
- Compatible with multiple detectors including MS, CAD, ELSD and UV
- Well suited for the determination of cationic surfactants
- High efficiency and fast analysis
- Rugged separations under a variety of conditions



Acclaim Surfactant Plus is a new generation of columns offering improved performance and higher throughput for analyzing surfactants. These columns exhibit exceptionally low bleed and are ideal for use with charged aerosol detectors (CAD) and mass spectrometers (MS). These columns can be used to separate a wide variety of surfactants including anionic, cationic, nonionic and amphoteric surfactants, as well as isomers of xylene sulfonate.

These columns can be used with evaporative light scattering detectors (ELSD), suppressed conductivity detectors (SCD), and UV-Vis detectors (UV). Non-metallic PEEK hardware is available for best compatibility with Dionex ion chromatography systems.

Cationic surfactants



Acclaim Surfactant Plus, 3μm, 150 x 3.0mm

Mobile Phase A: Acetonitrile

Mobile Phase B: 100mM Formic acid

Mobile Phase C: Water

Gradient:

Time (min)	%A	%B	%C
-12	5	5	90
0	5	5	90
12	40	5	55
20	40	5	55

Temperature: 25°C

Flow Rate: 0.5mL/min

Injection Volume: 5μL

Detection: Conductivity with blank subtraction

Analytes:

1. Tetrabutylammonium
2. Tetrapentylammonium
3. Tetrahexylammonium
4. Tetraheptylammonium
5. Decyl-trimethylammonium
6. Dodecyl-trimethylammonium
7. Tetradecyl-trimethylammonium
8. Hexadecyl-trimethylammonium

Acclaim Surfactant Plus

Particle Size (μm)	Format	Length (mm)	2.1mm ID	3.0mm ID	4.6mm ID	4.0mm ID PEEK
3	HPLC Column	100	078955	078952	—	—
		150	078954	078951	078950	—
		250	078953	—	—	—
5	Guard Cartridges (2/pk)	10	078960	078959	082773	—
	HPLC Column	250	—	—	082767	—
		150	—	—	082768	078956

Acclaim guard holder

Description	Cat. No.
Acclaim SST Guard Cartridge Holder V-2	069580
Acclaim Guard Kit (Holder and coupler) V-2	069707
Guard to Analytical Column Coupler V-2	074188

Acclaim explosives E2

The best solution for explosives analysis (EPA Method 8330)

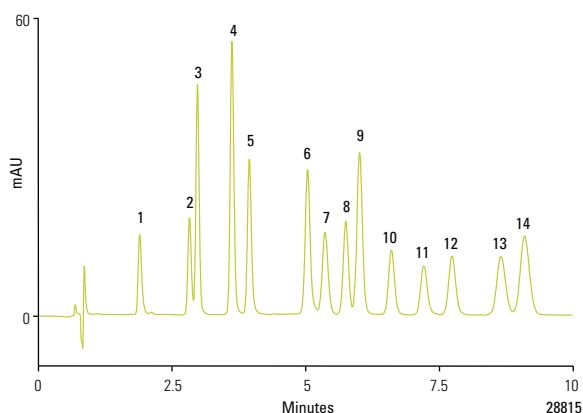
- Acclaim E2 columns provide baseline resolution of all 14 compounds targeted by EPA Method 8330
- Columns available in 2.2, 3 and 5µm particle size
- Simple isocratic elution conditions
- Rugged columns with good lot-to-lot reproducibility



Acclaim Explosives E2 columns are specifically designed to resolve all 14 explosives listed in EPA SW-846 Method 8330: Nitroaromatics and Nitramines by HPLC. The novel and unique chemistries of these columns provide superior resolution with complementary selectivities.

The Acclaim Explosives E2 may be used as either a primary or a confirmatory column. The unique selectivity and versatility of this column provides a wider application range, including the analysis of explosives beyond U.S. EPA Method 8330 (ISO22478).

Rapid determination of EPA 8330A explosives



Acclaim RSLC Explosives E2, 2.2µm, 100 x 2.1mm

Mobile Phase:	Methanol:water 48:52 (v/v)	
Temperature:	31°C	
Flow Rate:	0.34mL/min (293 bar)	
Injection Volume:	1µL	
Detection:	UV, 254nm	
Analytes:	1. HMX	8. 2,6-DNT
	2. RDX	9. 2,4-DNT
	3. 1,3,5-TNB	10. 2-NT
	4. 3,5-DNB	11. 4-NT
	5. NB	12. 3-NT
	6. 2,4,6-TNT	13. 4-Am-2,6-DNT
	7. Tetryl	14. 2-Am-4,6-DNT
Sample:	Calibration mix, 25µg/mL in 50% acetonitrile	

Acclaim Explosives E2

Particle Size (µm)	Format	Length (mm)	2.1mm ID	3.0mm ID	4.6mm ID
2.2	RSLC Column	100	076225	076227	—
		150	076226	—	—
3	HPLC Column	150	070083	070082	—
		250	—	070081	—
5	Guard Cartridges (2/pk)	10	—	071989	069703
	HPLC Column	250	—	—	064309

Acclaim Trinity Q1

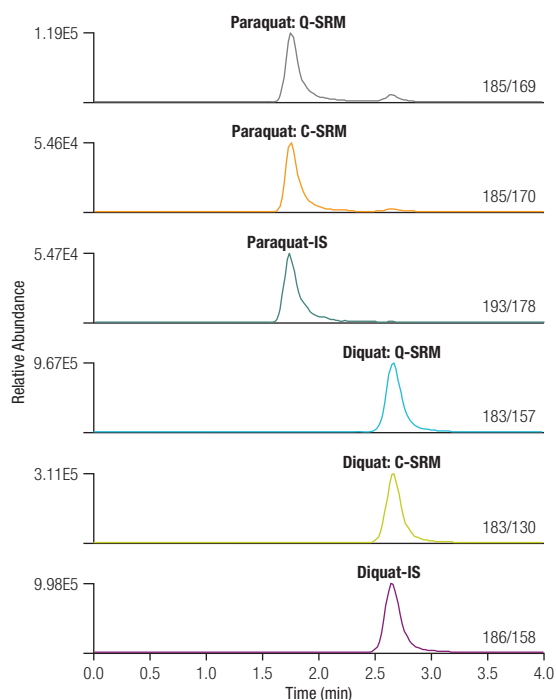
For trace analysis of diquat and paraquat

- Excellent resolution of diquat and paraquat
- Good peak shape
- Fast analysis
- LC-MS compatible
- No ion-pairing reagent needed



Acclaim Trinity Q1 columns are unique, high-efficiency, silica-based columns designed for the separation of the herbicides diquat and paraquat. These herbicides are toxic and residues are monitored in drinking water, wastewater and agricultural products. The Acclaim Trinity Q1 column is a tri-mode (WCX, WAX, RP), column based on Nano-polymer Silica Hybrid technology. It offers unmatched high-resolution and high-throughput trace analysis of the herbicides diquat and paraquat by LC-MS/MS and LC-UV methods.

Diquat and Paraquat



Acclaim Trinity Q1, 3µm, 50 x 3.0mm

Mobile Phase:	25% ammonium acetate (100mM, pH 5.0); 75% acetonitrile
Temperature:	Ambient
Flow Rate:	0.5mL/min
Injection Volume:	5µL
Detection:	Show Mass Spectrometric conditions and the scan events etc. table underneath are the peaks section
Mass Spectrometric Conditions System:	Thermo Scientific TSQ Quantiva Access MAX Quadrupole Mass Spectrometer
Interface:	Heated Electrospray Ionization with HESI II probe
Spray Voltage:	1500 V
Vaporizer Temp:	400 °C
Sheath Gas Pressure:	70
Aux Gas Pressure:	10
Capillary Temp:	350 °C
Quantitation Mode:	Selected Reaction Monitoring (SRM)
Scan Events	Precursor Quantitative Confirmative
	SRM (CID) SRM (CID)
Paraquat	185 169 (27) 170 (17)
Paraquat-d ₆	193 178 (17)
Diquat	183 157 (22) 130 (31)
Diquat-d ₃	186 158 (22)

Download the Acclaim column selection guide [here](#)

Acclaim Trinity Q1

Particle Size		Length (mm)	2.1mm ID	3.0mm ID
3	HPLC Column	50	083242	083241
		100	079717	079715
5	Guard Cartridges (2/pk)	10	083244	079719

For more information, visit thermofisher.com/acclaim

Acclaim Carbamate

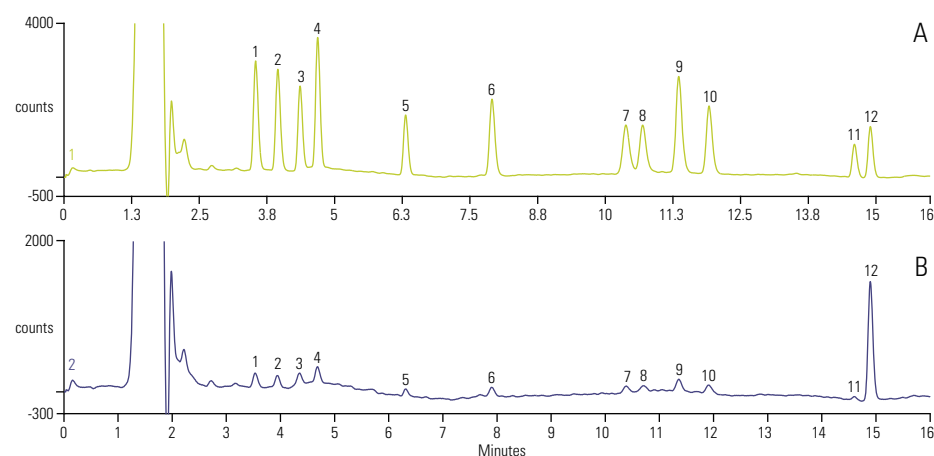
Designed for baseline separation of carbamate pesticides specified in US EPA Method 531.2

- Baseline separation of carbamate pesticides specified in US EPA Method 531.2
- Use with either LC/postcolumn derivatization/fluorescence or LC-MS detection
- Available in 2.2, 3 and 5µm particle size
- Compatible with both binary (methanol/water) and ternary (acetonitrile/methanol/water) mobile phase gradients
- High-efficiency, extremely low column bleed, and rugged column packing



Acclaim Carbamate columns are designed for baseline separation of carbamates (N-methylcarbamate and N-methylcarbamoyloxime pesticides) specified in US EPA Method 531.2. Carbamate pesticides are widely used throughout the world. Drinking water and raw surface water is monitored for the presence of carbamate pesticides and related compounds using an established EPA Method 531.2 that uses HPLC with postcolumn derivatization. LC-MS is the method of choice for the ultimate sensitivity.

Carbamate standard - spiked rice samples



A: without dispersive SPE
B: with dispersive SPE using PSA

Acclaim Carbamate, 3µm, 150 x 3.0mm

Mobile Phase:	Methanol-H ₂ O
Gradient:	Methanol, -4.0-0.0 min, 14%;
	2.0 min, 20%; 8.0 min, 40%;
	13.6-16 min, 70%
Temperature:	50 °C
Flow Rate:	0.9mL/min
Injection Volume:	250µL
Detection:	Excitation/330nm and Emission/465nm
Analytes:	1. Aldicarb sulfoxide
	2. Aldicarb sulfone
	3. Oxamyl
	4. Methomyl
	5. 3-Hydroxy carbofuran
	6. Aldicarb
	7. Propoxur
	8. Carbofuran
	9. Carbaryl
	10. 1-Naphthol
	11. Methiocarb
	12. BDMC (I.S.)

Acclaim carbamate

Particle Size (µm)	Format	Length (mm)	2.1mm ID	3.0mm ID	4.6mm ID
2.2	RSLC Column	100	075597	—	—
		150	075596	—	—
3	Guard Cartridges (2/pk)	10	072930	072929	072928
	HPLC Column	150	072927	072926	072925
5	HPLC Column	250	—	—	072924

Acclaim guard holder

Description	Cat. No.
Acclaim SST Guard Cartridge Holder V-2	069580
Acclaim Guard Kit (Holder and coupler) V-2	069707
Guard to Analytical Column Coupler V-2	074188

Acclaim Carbonyl C18

A silica-based, reversed-phase column designed specifically for separating DNPH derivatives of aldehydes and ketones

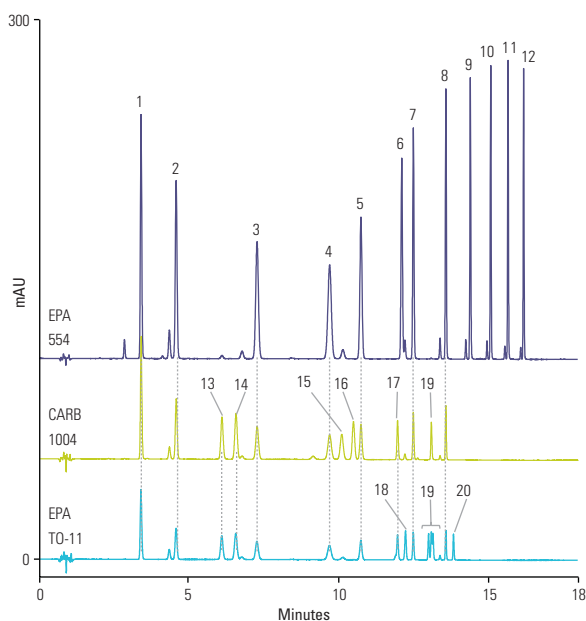
- Ideal selectivity for baseline resolution of DNPH derivatives of aldehydes and ketones regulated by various official methods, including EPA 554, EPA 8315, EPA 1667, EPA TO-11, and CARB 1004
- High efficiency for UHPLC performance
- Rugged columns with good lot-to-lot reproducibility
- Proven robust methods



Acclaim Carbonyl C18 columns are silica-based reversed phase columns designed specifically for separating DNPH derivatives of aldehydes and ketones. They exhibit superior resolution compared with other commercially available columns.

Aldehydes and ketones are common pollutants in air and water. Several standard methods have been developed to apply using dinitrophenylhydrazine (DNPH) to various environmental situations to measure these compounds. Some of the better known ones include CARB 1004 for vehicle exhaust, EPA 554 for drinking water, EPA 1667 for pharmaceutical wastewater, and EPA 8315 for general wastewater.

DNPH aldehydes and ketones



Acclaim Carbonyl RSLC, 2.2μm, 150 x 2.1mm

Mobile Phase A:	D.I. water
Mobile Phase B:	Acetonitrile
Gradient (min):	-4.50.0 8.3 15.018.0
	%A 48 48 48 0 0
	%B 52 52 52 100 100
Flow Rate:	0.400mL/min
Injection Volume:	1μL
Temperature:	28°C
Detection:	UV, 360nm
Samples:	Calibration mixes diluted in methanol
Analytes:	1. Formaldehyde DNPH
	2. Acetaldehyde DNPH
	3. Propionaldehyde DNPH
	4. Crotonaldehyde DNPH
	5. Butyraldehyde DNPH
	6. Cyclohexanone DNPH
	7. Valeraldehyde DNPH
	8. Hexanal DNPH
	9. Heptanal DNPH
	10. Octanal DNPH
	11. Nonanal DNPH
	12. Decanal DNPH
	13. Acetone DNPH
	14. Acrolein DNPH
	15. Butanone DNPH
	16. Methacrolein DNPH
	17. Benzaldehyde DNPH
	18. Isovaleraldehyde DNPH
	19. Toluvaldehyde DNPH
	20. Xylaldehyde DNPH

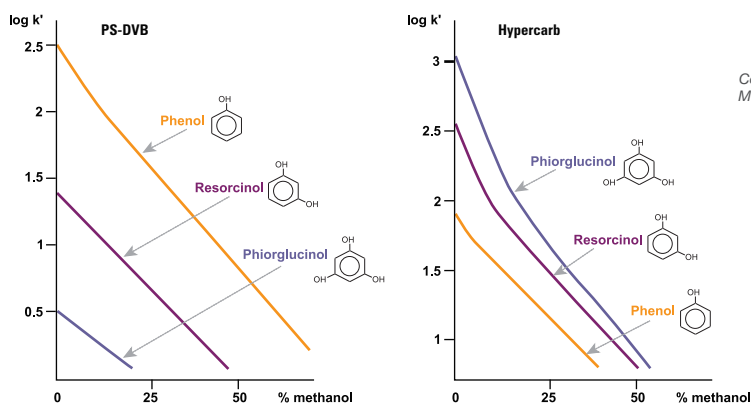
Acclaim Carbonyl C18

Particle Size (μm)	Format	Length (mm)	2.1mm ID	3.0mm ID	4.6mm ID
2.2	RSLC Column	100	077972	077974	—
		150	077973	—	—
3	HPLC Column	150	079011	079010	—
		250	—	079009	—
5	Guard Cartridge (2/pk)	10	079012	079013	079014
		250	—	—	083214

For more information, visit thermofisher.com/acclaim

Increased retention of polar analytes

In typical reversed phase chromatography, the retention of an analyte is directly related to its hydrophobicity: the more hydrophobic the analyte, the longer its retention. Conversely, as the polarity of the analyte increases, analyte-solvent interactions begin to dominate and retention is reduced. This observation holds true for the majority of reversed phase systems. An exception to this rule is Hypercarb columns, for which retention may in some cases increase as the polarity of the analyte increases, illustrated to the right. This phenomenon is referred to as the “polar retention effect on graphite” (PREG). This property makes Hypercarb columns particularly useful for the separation of highly polar compounds (with logP as low as -4) that are normally difficult to retain and resolve on silica-based alkyl chain



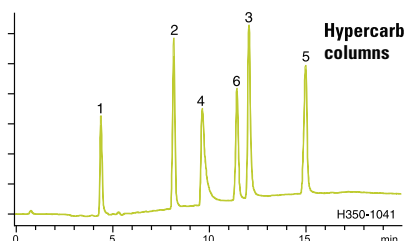
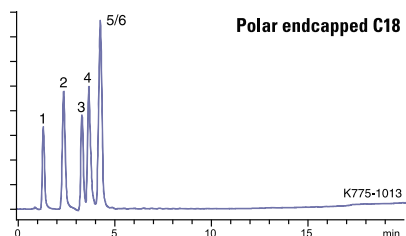
Retention on Hypercarb columns increases as polarity of the analyte increases, which is the opposite of typical reversed phase materials such as PS-DVB

phases. The retention of very polar solutes on Hypercarb columns can be achieved without ion pair reagents or complex mobile phase conditions, as illustrated in the chromatogram below.

Extended pH range

One of the other key benefits of Hypercarb columns is the extreme stability of the phase to chemical or

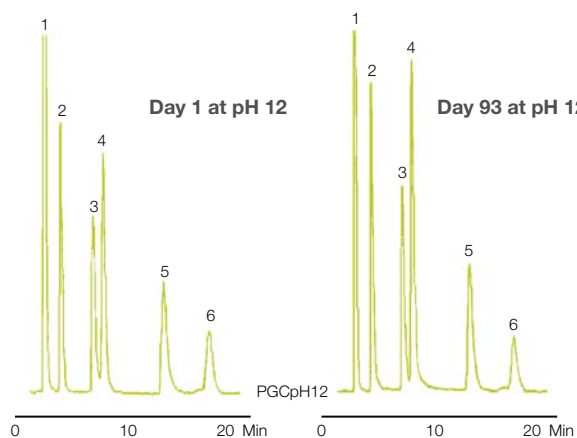
physical attack. Due to the unique characteristics of the media, it can withstand chemical attack across the entire pH range of 0 to 14, allowing applications to be run at pH levels that are incompatible with typical silica-based columns. Hypercarb columns offer more choice in buffer selection while handling both high temperature and high pressure.



Additional retention is achieved for polar compounds using a Hypercarb column compared to a polar endcapped C18. Note also the change in elution order.

Hypercarb, 5µm, 100 x 0.32mm

Mobile Phase A:	H ₂ O + 0.1% formic acid
Mobile Phase B:	ACN + 0.1% formic acid
Gradient:	0 to 25% B in 15 minutes
Temperature:	25°C
Flow Rate:	8µL/min
Detection:	UV, 254nm
Analyses:	1. Cytosine 2. Uracil 3. Guanine 4. Adenine 5. Xanthine 6. Thymine



Hypercarb, 5µm, 100 x 4.6mm

Mobile Phase:	MeOH:H ₂ O
Gradient:	70:30
Flow Rate:	0.7mL/min
Detection:	UV, 254nm
Analyses:	1. Acetone 2. Phenol 3. p-Cresol 4. Anisol 5. Phenetole 6. 3,5 -Xylenol

Hypercarb column stability at pH 12: retention and selectivity do not change even after 93 days of storage in 0.1M NaOH/MeOH

Hypercarb

Particle Size (µm)	Format	Length (mm)	ID (mm)	Cat. No.
3	Drop-in Guard (4/pk)	10	2.1	35003-012101
			3.0	35003-013001
			4.0 / 4.6	35003-014001
	HPLC Column	30	2.1	35003-032130
			3.0	35003-033030
			4.6	35003-054630
		50	2.1	35003-052130
			3.0	35003-053030
			4.6	35003-104630
		100	2.1	35003-102130
			3.0	35003-103030
			4.6	35003-104630
		150	2.1	35003-152130
			3.0	35003-153030
			4.6	35003-154630
	High Temperature HPLC Column	30	2.1	35003-032146
		50	2.1	35003-052146
		100	4.6	35003-054646
			2.1	35003-102146
			3.0	35003-103046
			4.6	35003-104646
5	Drop-in Guard (4/pk)	10	2.1	35005-012101
			3.0	35005-013001
			4.6	35005-014001
	HPLC Column	30	2.1	35005-032130
			3.0	35005-033030
			4.6	35005-034630
		50	2.1	35005-052130
			3.0	35005-053030
			4.6	35005-054630
		100	2.1	35005-102130
			3.0	35005-103030
			4.6	35005-104630
		150	2.1	35005-152130
			3.0	35005-153030
			4.6	35005-154630
	High Temperature HPLC Column	30	2.1	35005-032146
		50	4.6	35005-034646
			2.1	35005-052146
			4.6	35005-054646
		100	2.1	35005-102146
			4.6	35005-104646
	Javelin HTS Column	20	2.1	35005-022135
	Preparative HPLC Column	100	10	35005-109070A
			21.2	35005-109270A
			30	35005-109370A
		150	10	35005-159070A
			21.2	35005-159270A

Format	Length (mm)	ID (mm)	Cat. No.
Uniguard Guard Cartridge Holder	10	1.0	851-00
		2.1	852-00
		3.0	852-00
		4.6	850-00