

Application	Page #
Antibiotics	550
Herbicides	532
Pesticides	533

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Application	Page #
Acetaminophen, Narcotic Analgesics	544
Acetaminophen, Pseudoephedrine & Caffeine	559
Albuterol	553
Antiarrhythmics	546, 547
Antibiotics	550
Antidepressants	550
Herbicides	531
Ibuprofen & Pseudoephedrine	559
Sedatives	558
Steroids	556

Allure® Columns: 3µm or 5µm particles; 60Å pore size

Small pore size in a high-purity, Type B silica provides a large surface area. High carbon loads, highly retentive. An excellent choice for light scattering (ELSD) and MS detectors, in which more organic solvent in the mobile phase gives better sensitivity.

Allure® C18 Columns (USP L1) Excellent Columns for LC/MS and ELSD

Physical Characteristics:

particle size: 3µm or 5µm, spherical endcap: fully endcapped
pore size: 60Å pH range: 2.5 to 7.5
carbon load: 27% temperature limit: 80°C

Chromatographic Properties:

Most retentive of our alkyl stationary phases due to large surface area of the base silica and high-density bondings. Provides excellent peak shapes for a wide range of compounds.

Length	1.0mm ID cat.#	2.1mm ID cat.#	3.2mm ID cat.#	4.6mm ID cat.#
3µm Columns				
30mm	9164331	9164332	9164333	9164335
50mm	9164351	9164352	9164353	9164355
100mm	9164311	9164312	9164313	9164315
5µm Columns				
30mm	9164531	9164532	9164533	9164535
50mm	9164551	9164552	9164553	9164555
100mm	9164511	9164512	9164513	9164515
150mm	9164561	9164562	9164563	9164565
200mm	9164521	9164522	9164523	9164525
250mm	9164571	9164572	9164573	9164575

Allure® Basix Columns (USP L10) Excellent Columns for LC/MS and ELSD

Physical Characteristics:

particle size: 3µm or 5µm, spherical endcap: fully endcapped
pore size: 60Å pH range: 2.5 to 7.5
carbon load: 12% temperature limit: 80°C

Chromatographic Properties:

Highly retentive propyl cyano phase. Excellent choice for basic compounds and for analytes containing amine group functionality.

Length	1.0mm ID cat.#	2.1mm ID cat.#	3.2mm ID cat.#	4.6mm ID cat.#
3µm Columns				
30mm	9161331	9161332	9161333	9161335
50mm	9161351	9161352	9161353	9161355
100mm	9161311	9161312	9161313	9161315
5µm Columns				
30mm	9161531	9161532	9161533	9161535
50mm	9161551	9161552	9161553	9161555
100mm	9161511	9161512	9161513	9161515
150mm	9161561	9161562	9161563	9161565
200mm	9161521	9161522	9161523	9161525
250mm	9161571	9161572	9161573	9161575

Allure® PFP Propyl Columns (USP L43) Excellent Columns for LC/MS and ELSD

Physical Characteristics:

particle size: 3µm or 5µm, spherical endcap: fully endcapped
pore size: 60Å pH range: 2.5 to 7.5
carbon load: 17% temperature limit: 80°C

Chromatographic Properties:

A pentafluorophenyl phase with a propyl spacer. Highly retentive for basic analytes. An excellent phase for separating nucleosides, nucleotides, purines, pyrimidines, halogenated compounds, β-blockers, and tricyclic antidepressants.

Length	1.0mm ID	2.1mm ID	3.2mm ID	4.6mm ID
	cat.#	cat.#	cat.#	cat.#
3µm Columns				
30mm	9169331	9169332	9169333	9169335
50mm	9169351	9169352	9169353	9169355
100mm	9169311	9169312	9169313	9169315
5µm Columns				
30mm	9169531	9169532	9169533	9169535
50mm	9169551	9169552	9169553	9169555
100mm	9169511	9169512	9169513	9169515
150mm	9169561	9169562	9169563	9169565
200mm	9169521	9169522	9169523	9169525
250mm	9169571	9169572	9169573	9169575

Allure® Aqueous C18 Columns (USP L1) Excellent Columns for LC/MS and ELSD

Physical Characteristics:

particle size: 5µm spherical endcap: no
pore size: 60Å pH range: 2.5 to 7.5
temperature limit: 80°C

Chromatographic Properties:

Highly retentive and selective phase for separating polar analytes, including polar acidic compounds. Compatible with highly aqueous (up to 100%) mobile phases. Highly base deactivated. An excellent choice when analyzing a wide range of compounds, as in LC/MS screening methods.

Length	1.0mm ID	2.1mm ID	3.2mm ID	4.6mm ID
	cat.#	cat.#	cat.#	cat.#
5µm Columns				
30mm	9168531	9168532	9168533	9168535
50mm	9168551	9168552	9168553	9168555
100mm	9168511	9168512	9168513	9168515
150mm	9168561	9168562	9168563	9168565
200mm	9168521	9168522	9168523	9168525
250mm	9168571	9168572	9168573	9168575

Application	Page #
Antibiotics	549
Catecholamines	525
Cocaine, Ecgonine Methyl Ester	527
Nucleic Acid Bases	523
Opiates	526
Pesticides	533



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ordering note

To order a 2.1mm, 3.2mm, or 4.6mm ID column with a Trident Integral Inlet Fitting, add "-700" to the catalog number for the column.

Nominal additional charge

Example: 100mm x 4.6mm ID Ultra C18 column with Trident Integral Inlet Fitting: 9174315-700

Also order an XG-XF fitting (cat.#25026 or 25062), see page 337.

For guard cartridges for these columns, see page 339.

Application	Page #
Antidepressants	551
Cannabinoids	526
Corticosteroids	553, 554
NSAIDs	557
Steroids	554, 555

free literature

Allure® Biphenyl HPLC Columns

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Flyer
lit. cat.# 580015A

Allure® Biphenyl Columns (USP L11)

Physical Characteristics:

particle size: 3µm or 5µm, spherical
pore size: 60Å
carbon load: 23%

endcap: yes
pH range: 2.5 to 7.5
temperature limit: 80°C

Chromatographic Properties:

Highly retentive and selective for aromatic and unsaturated compounds. Increased retention and selectivity, compared to phenyl phases. Excellent selectivity for steroids, tetracyclines, explosives, and other unsaturated compounds.

Length	1.0mm ID		2.1mm ID		3.2mm ID		4.6mm ID	
	cat.#		cat.#		cat.#		cat.#	
3µm Columns								
30mm	9166331		9166332		9166333		9166335	
50mm	9166351		9166352		9166353		9166355	
100mm	9166311		9166312		9166313		9166315	
5µm Columns								
30mm	9166531		9166532		9166533		9166535	
50mm	9166551		9166552		9166553		9166555	
100mm	9166511		9166512		9166513		9166515	
150mm	9166561		9166562		9166563		9166565	
200mm	9166521		9166522		9166523		9166525	
250mm	9166571		9166572		9166573		9166575	

Allure® Organic Acids Columns

Physical Characteristics:

particle size: 5µm, spherical
pore size: 60Å

endcap: no
pH range: 2.5 to 7.5
temperature limit: 80°C

Chromatographic Properties:

Allure® Organic Acids columns provide enhanced retention and selectivity for polar organic acids, allowing the separation to be performed on a single 30cm column. An Allure® Organic Acids column effectively resolves key organic acids such as tartaric and quinic acids, using the chromatographic conditions specified in AOAC method 986.13. Retention is stable and reproducible, even with the 100% aqueous mobile phase specified in the AOAC method.

Application	Page #
Carboxylic Acids	540
Fruit Juice Acids	541

Length	3.2mm ID		4.6mm ID	
	cat.#		cat.#	
5µm Column				
150mm		9165563		9165565
250mm				9165575
300mm				9165585

Note: Other dimensions available on request.

ordering note

To order a 2.1mm, 3.2mm, or 4.6mm ID column with a Trident Integral Inlet Fitting, add "-700" to the catalog number for the column.

Nominal additional charge

Example: 100mm x 4.6mm ID Ultra C18 column with Trident Integral Inlet Fitting: 9174315-700

Also order an XG-XF fitting (cat.#25026 or 25062), see page 337.

For guard cartridges for these columns, see page 339.

Allure® Silica Columns (USP L3)

Physical Characteristics:

particle size: 3µm or 5µm, spherical
 pore size: 60Å
 endcap: no
 pH range: 2.5 to 7.5
 temperature limit: 80°C

Chromatographic Properties:

Highly retentive phase for normal phase separations. Very high surface area, Type B silica packing.

Length	1.0mm ID	2.1mm ID	3.2mm ID	4.6mm ID
	cat.#	cat.#	cat.#	cat.#
3µm Columns				
30mm	9160331	9160332	9160333	9160335
50mm	9160351	9160352	9160353	9160355
100mm	9160311	9160312	9160313	9160315
5µm Columns				
30mm	9160531	9160532	9160533	9160535
50mm	9160551	9160552	9160553	9160555
100mm	9160511	9160512	9160513	9160515
150mm	9160561	9160562	9160563	9160565
200mm	9160521	9160522	9160523	9160525
250mm	9160571	9160572	9160573	9160575

Allure® AK Columns

Physical Characteristics:

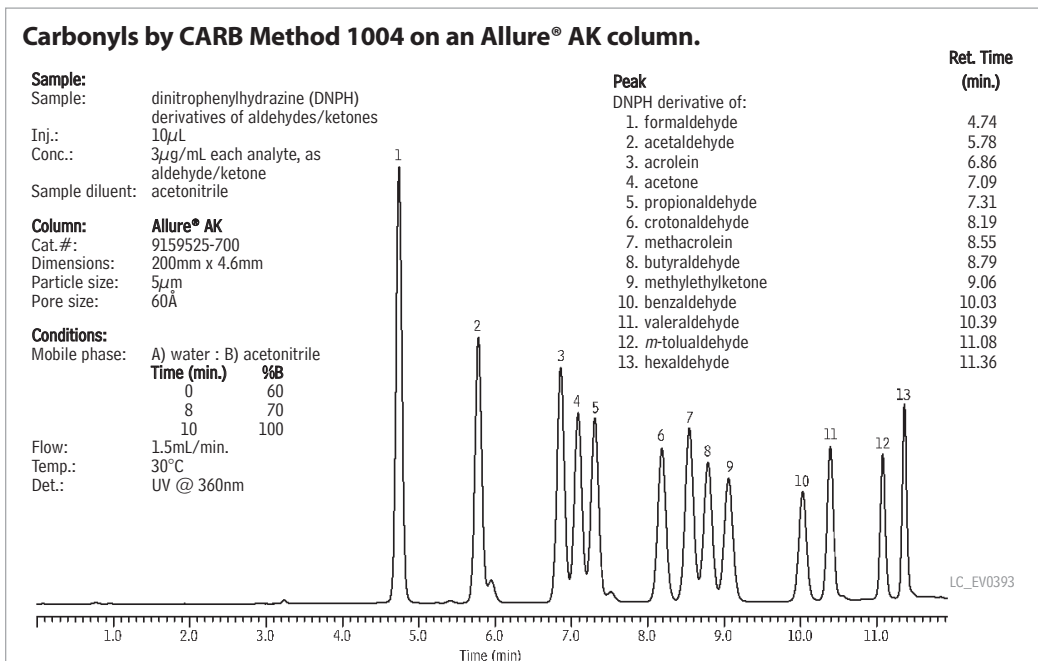
particle size: 5µm
 pore size: 60Å
 endcap: yes
 pH range: 2.5 to 7.5
 temperature limit: 80°C

Chromatographic Properties:

This highly retentive, highly selective phase, unique to Restek, was developed specifically for the analysis of aldehydes and ketones as DNPH derivatives. Allure® AK is a reversed phase HPLC material that has the unique ability to separate all thirteen carbonyl compounds specified in California Air Resources Board (CARB) Method # 1004, using a simple acetonitrile/water gradient, in less than 15 minutes. Other columns require long analysis times or the use of tetrahydrofuran.

Application	Page #
Carbonyls	321, 528

Length	3.2mm ID cat.#	4.6mm ID cat.#
5µm Columns with Trident Integral Inlet Fittings		
200mm	9159523-700	9159525-700



Frank Dorman
 Director of Technical Development
 12+ years of service!