



**Physical Characteristics:**

particle size: 5µm, spherical  
pore size: 60Å  
carbon load: 27%  
endcap: fully endcapped  
pH range: 2.5 to 8  
temperature limit: 80°C



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**Allure® Columns: 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 evaporative light scattering (ELSD) and MS detectors, in which more organic solvent in the mobile phase gives better sensitivity.

**Allure® C18 Columns (USP L1)**

**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.

	1.0mm ID	2.1mm ID	3.2mm ID	4.6mm ID
Length	cat.#	cat.#	cat.#	cat.#
<b>5µm Columns</b>				
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® C18 Guard Cartridges**

Guard Cartridges	3-pk. (10 x 2.1mm)	3-pk. (10 x 4.0mm)	2-pk. (20 x 2.1mm)	2-pk. (20 x 4.0mm)
Allure C18 Guard Cartridge	916450212	916450210	916450222	916450220

**Allure® C18 HPLC Prep Columns**

	10mm ID	21.2mm ID	30mm ID	50mm ID
Length	cat.#	cat.#	cat.#	cat.#
<b>5µm Columns</b>				
50mm	9164557	9164558	9164559	9164550
100mm	9164517	9164518	9164519	9164510
150mm	9164567	9164568	9164569	9164560
250mm	9164577	9164578	9164579	9164570

**Physical Characteristics:**

particle size: 5µm, spherical  
pore size: 60Å  
carbon load: 12%  
endcap: fully endcapped  
pH range: 2.5 to 8  
temperature limit: 80°C



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**Allure® Basix Columns (USP L10)**

**Chromatographic Properties:**

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

	1.0mm ID	2.1mm ID	3.2mm ID	4.6mm ID
Length	cat.#	cat.#	cat.#	cat.#
<b>5µm Columns</b>				
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® Basix Guard Cartridges**

Guard Cartridges	3-pk. (10 x 2.1mm)	3-pk. (10 x 4.0mm)	2-pk. (20 x 2.1mm)	2-pk. (20 x 4.0mm)
Allure Basix Guard Cartridge	916150212	916150210	916150222	916150220

**Allure® Basix HPLC Prep Columns**

	10mm ID	21.2mm ID	30mm ID	50mm ID
Length	cat.#	cat.#	cat.#	cat.#
<b>5µm Columns</b>				
50mm	9161557	9161558	9161559	9161550
100mm	9161517	9161518	9161519	9161510
150mm	9161567	9161568	9161569	9161560
250mm	9161577	9161578	9161579	9161570



also  
**available**

**Bulk Packing  
Materials**  
See page 194.

## Allure® PFP Propyl Columns (USP L43)

### 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,  $\beta$ -blockers, and tricyclic antidepressants.

Length	1.0mm ID	2.1mm ID	3.2mm ID	4.6mm ID
	cat.#	cat.#	cat.#	cat.#
<b>5<math>\mu</math>m Columns</b>				
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® PFP Propyl Guard Cartridges

Guard Cartridges	3-pk.	3-pk.	2-pk.	2-pk.
	(10 x 2.1mm)	(10 x 4.0mm)	(20 x 2.1mm)	(20 x 4.0mm)
Allure PFP Propyl Guard Cartridge	916950212	916950210	916950222	916950220

## Allure® PFP Propyl HPLC Prep Columns

Length	10mm ID	21.2mm ID	30mm ID	50mm ID
	cat.#	cat.#	cat.#	cat.#
<b>5<math>\mu</math>m Columns</b>				
50mm	9169557	9169558	9169559	9169550
100mm	9169517	9169518	9169519	9169510
150mm	9169567	9169568	9169569	9169560
250mm	9169577	9169578	9169579	9169570

## Allure® Aqueous C18 Columns (USP L1)

### 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.#
<b>5<math>\mu</math>m Columns</b>				
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

## Allure® Aqueous C18 Guard Cartridges

Guard Cartridges	3-pk.	3-pk.	2-pk.	2-pk.
	(10 x 2.1mm)	(10 x 4.0mm)	(20 x 2.1mm)	(20 x 4.0mm)
Allure Aqueous C18 Guard Cartridge	916850212	916850210	916850222	916850220

### Physical Characteristics:

particle size: 5 $\mu$ m, spherical  
pore size: 60Å  
carbon load: 17%  
endcap: fully endcapped  
pH range: 2.5 to 8  
temperature limit: 80°C



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antibiotics	.723
benzodiazepines	.751
catecholamines	.745
cocaine, ecgonine methyl ester	.750
nucleic acid bases	.744
opiates	.748

### Physical Characteristics:

particle size: 5 $\mu$ m spherical  
pore size: 60Å  
endcap: no  
pH range: 2.5 to 8  
temperature limit: 80°C

## Chromatogram Search Tool

Search by compound name, synonym, CAS # or keyword

[www.restek.com/chromatograms](http://www.restek.com/chromatograms)





**Physical Characteristics:**

particle size: 5µm, spherical  
pore size: 60Å  
carbon load: 23%  
endcap: yes  
pH range: 2.5 to 8  
temperature limit: 80°C



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antibiotics	740
corticosteroids	741
steroids	742

**Allure® Biphenyl Columns (USP L11)**

**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.#
<b>5µm Columns</b>				
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® Biphenyl Guard Cartridges**

Guard Cartridges	3-pk.	3-pk.	2-pk.	2-pk.
	(10 x 2.1mm)	(10 x 4.0mm)	(20 x 2.1mm)	(20 x 4.0mm)
Allure Biphenyl Guard Cartridge	916650212	916650210	916650222	916650220

**Allure® Biphenyl HPLC Prep Columns**

Length	10mm ID	21.2mm ID	30mm ID	50mm ID
	cat.#	cat.#	cat.#	cat.#
<b>5µm Columns</b>				
50mm	9166557	9166558	9166559	9166550
100mm	9166517	9166518	9166519	9166510
150mm	9166567	9166568	9166569	9166560
250mm	9166577	9166578	9166579	9166570

**Physical Characteristics:**

particle size: 5µm, spherical  
pore size: 60Å  
endcap: no  
pH range: 2.5 to 8  
temperature limit: 80°C



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fruit juice acids	531

**Allure® Organic Acids Columns**

**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.

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

Note: Other dimensions available on request.

**Allure® Organic Acids Guard Cartridges**

Guard Cartridges	3-pk.	3-pk.	2-pk.	2-pk.
	(10 x 2.1mm)	(10 x 4.0mm)	(20 x 2.1mm)	(20 x 4.0mm)
Allure Organic Acids Guard Cartridge	916550212	916550210	916550222	916550220

## Allure® Silica Columns (USP L3)

### 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.#
<b>5µm Columns</b>				
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® Silica Guard Cartridges

Guard Cartridges	3-pk.	3-pk.	2-pk.	2-pk.
	(10 x 2.1mm)	(10 x 4.0mm)	(20 x 2.1mm)	(20 x 4.0mm)
Allure Silica Guard Cartridge	916050212	916050210	916050222	916050220

## Allure® Silica HPLC Prep Columns

Length	10mm ID	21.2mm ID	30mm ID	50mm ID
	cat.#	cat.#	cat.#	cat.#
<b>5µm Columns</b>				
50mm	9160557	9160558	9160559	9160550
100mm	9160517	9160518	9160519	9160510
150mm	9160567	9160568	9160569	9160560
250mm	9160577	9160578	9160579	9160570

## Allure® AK Columns

### 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.

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

## Allure® AK Guard Cartridge

Guard Cartridges	3-pk.
	(10 x 4.0mm)
Allure AK Guard Cartridge	915950210

### Physical Characteristics:

particle size: 5µm, spherical  
pore size: 60Å  
endcap: no  
pH range: 2.5 to 8  
temperature limit: 80°C

### Physical Characteristics:

particle size: 5µm  
pore size: 60Å  
endcap: yes  
pH range: 2.5 to 8  
temperature limit: 80°C



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## Carbonyls by CARB Method 1004 on an Allure® AK column.

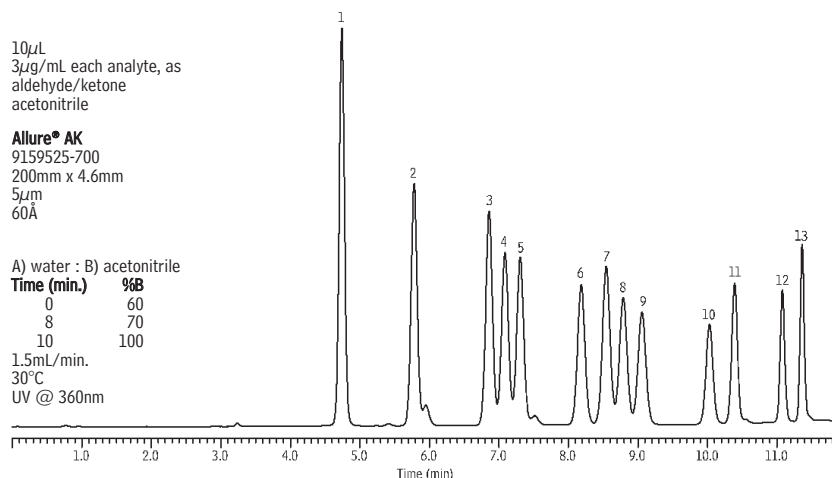
**Sample:**  
Inj.: 10µL  
Conc.: 3µg/mL each analyte, as aldehyde/ketone  
Sample diluent: acetonitrile

**Column:**  
Allure® AK  
Cat.#: 9159525-700  
Dimensions: 200mm x 4.6mm  
Particle size: 5µm  
Pore size: 60Å

**Conditions:**  
Mobile phase: A) water : B) acetonitrile

Time (min.)	%B
0	60
8	70
10	100

Flow: 1.5mL/min.  
Temp.: 30°C  
Det.: UV @ 360nm



Peak	Ret. Time (min.)
DNPH derivatives of:	
1. formaldehyde	4.74
2. acetaldehyde	5.78
3. acrolein	6.86
4. acetone	7.09
5. propionaldehyde	7.31
6. crotonaldehyde	8.19
7. methacrolein	8.55
8. butyraldehyde	8.79
9. methylethylketone	9.06
10. benzaldehyde	10.03
11. valeraldehyde	10.39
12. <i>m</i> -tolualdehyde	11.08
13. hexaldehyde	11.36