

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.#	price	cat.#	price	cat.#	price	cat.#	price
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® Silica 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)		price
	cat.#	price	cat.#	price	cat.#	price	cat.#	price	
Allure Silica Guard Cartridge	916050212		916050210		916050222		916050220		

Allure® Silica HPLC Prep Columns

Length	10mm ID		21.2mm ID		30mm ID		50mm ID	
	cat.#	price	cat.#	price	cat.#	price	cat.#	price
5µm Columns								
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.#	price	cat.#	price
5µm Columns with Trident Integral Inlet Fittings				
200mm	9159523-700	\$601	9159525-700	

Allure® AK Guard Cartridge

Guard Cartridges	3-pk. (10 x 4.0mm)		price
	cat.#	price	
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	710

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

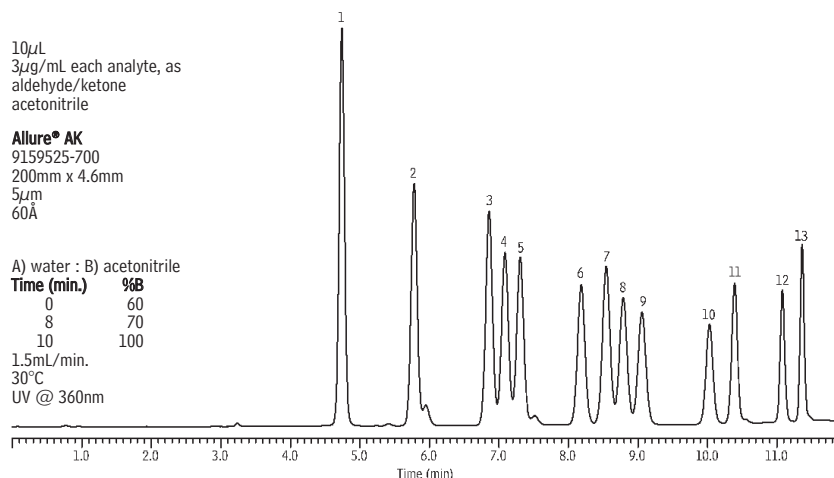
Sample:
Inj.: 10µL
Conc.: 3µg/mL each analyte, as aldehyde/ketone
Sample diluent: acetonitrile

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