

# Alltech® Apollo™ Columns



## Economical, High Performance Columns

- Easy scale-up from analytical to prep
- Extended pH stability—1.5 to 10.5

Batch-tested Apollo™ HPLC columns use high purity, base-deactivated silica for powerful separations at an economical price. They are ideal for educational labs or for method development.

Alltech



Apollo™ Phase Specifications									
Phase	Base Material	Particle Shape	Particle Size	Pore Size	Surface Area	Carbon Load	Phase Type	Endcapped?	USP L-code
C18	Silica	Spherical	5µm	100Å	340m <sup>2</sup> /g	15%	Monomeric	Yes	L1
C8	Silica	Spherical	5µm	100Å	340m <sup>2</sup> /g	9%	Monomeric	Yes	L7
Phenyl	Silica	Spherical	5µm	100Å	340m <sup>2</sup> /g	8%	Monomeric	Yes	L11
Silica	Silica	Spherical	5µm	100Å	340m <sup>2</sup> /g	—	—	—	L3

### Apollo™ HPLC Columns

Packing	Format	i.d. x Length	Part No.
C18, 5µm	Analytical	4.6 x 150mm	<b>36505</b>
	Analytical	4.6 x 250mm	<b>36511</b>
C8, 5µm	Analytical	4.6 x 150mm	<b>36506</b>
	Analytical	4.6 x 250mm	<b>36512</b>
Phenyl, 5µm	Analytical	4.6 x 150mm	<b>36538</b>
	Analytical	4.6 x 250mm	<b>36544</b>
Silica, 5µm	Analytical	4.6 x 150mm	<b>36507</b>
	Analytical	4.6 x 250mm	<b>36513</b>

### Apollo™ All-Guard™ Cartridges\*

Packing	i.d. x Length	Qty.	Part No.
C18, 5µm	4.6 x 7.5mm	3	<b>96454</b>
C8, 5µm	4.6 x 7.5mm	3	<b>96463</b>
Phenyl, 5µm	4.6 x 7.5mm	3	<b>96430</b>
Silica, 5µm	4.6 x 7.5mm	3	<b>96419</b>
All-Guard™ Cartridge Holder (Includes Direct-Connect Column Coupler)		ea	<b>80101</b>

\*All-Guard™ holder required. Other particle sizes available.

# Alltech® Econosphere™ Columns

- Low-cost columns for common chromatography applications
- Acid-washed for low metal content
- Easy scale-up from analytical to prep

Econosphere™ Phase Specifications									
Phase	Base Material	Particle Shape	Particle Size	Pore Size	Surface Area	Carbon Load	Phase Type	Endcapped?	USP L-code
C18	Silica	Spherical	3, 5, 10µm	80Å	200m <sup>2</sup> /g	10%	Monomeric	Yes	L1
C8	Silica	Spherical	3, 5, 10µm	80Å	200m <sup>2</sup> /g	5%	Monomeric	Yes	L7
Cyano	Silica	Spherical	5µm	80Å	200m <sup>2</sup> /g	—	Monomeric	Yes	L10
Amino (NH <sub>2</sub> )	Silica	Spherical	5µm	80Å	200m <sup>2</sup> /g	—	Polymeric	Yes	L8
Silica	Silica	Spherical	3, 5, 10µm	80Å	200m <sup>2</sup> /g	—	—	No	L3

### Econosphere™ HPLC Columns

Packing	Format	i.d. x Length	Standard Part No.	Waters® Part No.
C18, 3µm	Analytical	4.6 x 50mm	<b>70153</b>	<b>70156</b>
	Analytical	4.6 x 100mm	<b>70154</b>	—
	Analytical	4.6 x 150mm	<b>70155</b>	<b>70158</b>
C18, 5µm	Analytical	4.6 x 150mm	<b>70065</b>	<b>70070</b>
	Analytical	4.6 x 250mm	<b>70066</b>	<b>70071</b>
C8, 3µm	Analytical	4.6 x 50mm	<b>70165</b>	<b>70168</b>
C8, 5µm	Analytical	4.6 x 150mm	<b>70085</b>	<b>70090</b>
	Analytical	4.6 x 250mm	<b>70086</b>	—
Cyano, 5µm	Analytical	4.6 x 150mm	<b>70025</b>	—
	Analytical	4.6 x 250mm	<b>70026</b>	<b>70031</b>

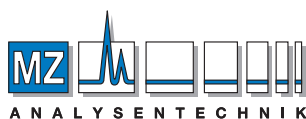
### Econosphere™ HPLC Columns (continued)

Packing	Format	i.d. x Length	Standard Part No.	Waters® Part No.
Amino, 5µm	Analytical	4.6 x 150mm	<b>70045</b>	<b>70050</b>
	Analytical	4.6 x 250mm	<b>70046</b>	<b>70051</b>
Silica, 3µm	Analytical	4.6 x 150mm	<b>70179</b>	<b>70182</b>
Silica, 5µm	Analytical	4.6 x 150mm	<b>70005</b>	<b>70010</b>
	Analytical	4.6 x 250mm	<b>70006</b>	<b>70011</b>

### Econosphere™ All-Guard™ Cartridges\*

Packing	i.d. x Length	Qty.	Part No.
C18	4.6 x 7.5mm	3	<b>96121</b>
C8	4.6 x 7.5mm	3	<b>96122</b>
Cyano	4.6 x 7.5mm	3	<b>96123</b>
Amino	4.6 x 7.5mm	3	<b>96124</b>
Silica	4.6 x 7.5mm	3	<b>96125</b>
All-Guard™ Cartridge Holder (Includes Direct-Connect Column Coupler)		ea	<b>80101</b>

\*Guard holder required.



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