



## SunFire HPLC Columns

SunFire Columns set the standard for state-of-the-art bonded C<sub>18</sub> and C<sub>8</sub> silica HPLC columns. Benefiting from years of research and product development, SunFire Columns deliver industry-leading levels of chromatographic performance, representing the best in particle and bonding expertise.

SunFire Columns offer:

- Excellent low-pH stability
- High chromatographic efficiency
- Superior peak shapes for charged analyte species

### Column Characteristics

	C <sub>18</sub> , 100Å	C <sub>18</sub> , 100Å	Silica, 100Å
HPLC: 2.5, 3.5, 5, 10 µm	HPLC: 2.5, 3.5, 5, 10 µm	HPLC: 5, 10 µm	
Particle/Ligand			
Ligand Density*	3.5 µmol/m <sup>2</sup>	3.5 µmol/m <sup>2</sup>	N/A
Carbon Load*	12%	16%	N/A
Endcap Style	Proprietary	Proprietary	N/A
USP Class No.	L7	L1	L3
pH Range	2–8	2–8	2–8
Temperature Limits	Low pH = 40 °C, High pH = 40 °C	Low pH = 50 °C, High pH = 40 °C	Low pH = 55 °C, High pH = 45 °C
Surface Area*	340 m <sup>2</sup> /g	340 m <sup>2</sup> /g	340 m <sup>2</sup> /g
Performance Standards	Neutrals QC Reference Material p/n: 186006360	Neutrals QC Reference Material p/n: 186006360	—
Application Standards	Reversed-Phase QC Reference Material p/n: 186006363	Reversed-Phase QC Reference Material p/n: 186006363	—
	HILIC QC Reference Material p/n: 186007226		

\*Expected or approximate value.

SunFire 2.5 µm Columns can be found on page 131.

## Ordering Information

### SunFire Analytical Columns

	Dimension	P/N	Dimension	P/N
	Particle Size: 3.5 µm		Particle Size: 5 µm	
<b>C<sub>18</sub></b>	2.1 × 50 mm	186002533	2.1 × 50 mm	186002539
	2.1 × 100 mm	186002534	2.1 × 100 mm	186002540
	2.1 × 150 mm	186002535	2.1 × 150 mm	186002541
	3.0 × 50 mm	186002542	3.0 × 50 mm	186002545
	3.0 × 100 mm	186002543	3.0 × 100 mm	186002546
	3.0 × 150 mm	186002544	3.0 × 150 mm	186002547
	4.6 × 20 mm /S	186002549	3.0 × 250 mm	186002548
	4.6 × 50 mm	186002551	4.6 × 30 mm	186002556
	4.6 × 75 mm	186002552	4.6 × 50 mm	186002557
	4.6 × 100 mm	186002553	4.6 × 100 mm	186002558
	4.6 × 150 mm	186002554	4.6 × 150 mm	186002559
			4.6 × 250 mm	186002560
	Particle Size: 3.5 µm		Particle Size: 5 µm	
<b>C<sub>8</sub></b>	2.1 × 50 mm	186002710	2.1 × 50 mm	186002715
	2.1 × 100 mm	186002711	2.1 × 100 mm	186002716
	2.1 × 150 mm	186002712	2.1 × 150 mm	186002717
	3.0 × 50 mm	186002719	3.0 × 50 mm	186002723
	3.0 × 100 mm	186002720	3.0 × 100 mm	186002724
	3.0 × 150 mm	186002721	3.0 × 150 mm	186002725
	4.6 × 30 mm	186002728	4.6 × 30 mm	186002734
	4.6 × 50 mm	186002729	4.6 × 50 mm	186002735
	4.6 × 75 mm	186002730	4.6 × 100 mm	186002736
	4.6 × 100 mm	186002731	4.6 × 150 mm	186002737
	4.6 × 150 mm	186002732	4.6 × 250 mm	186002738
	Particle Size: 5 µm		Particle Size: 10 µm	
<b>Silica</b>	4.6 × 150 mm	186003453	4.6 × 150 mm	186003467
	4.6 × 250 mm	186003454	4.6 × 250 mm	186003468

#### APPLICATION AREA: API's Impurities

"When combined with LC-MS/MS returns excellent results. It is highly versatile, durable, high performance and with good durability and reliability."

**REVIEWER:** Paolo Piccinini

**ORGANIZATION:** LabAnalysis srl



## SunFire Columns Method Validation Kits\*

	Dimension	P/N	Dimension	P/N
	Particle Size: 3.5 µm		Particle Size: 5 µm	
<b>C<sub>18</sub></b>	4.6 × 100 mm	186002675	4.6 × 150 mm	186002679
	4.6 × 150 mm	186002676	4.6 × 250 mm	186002680
<b>C<sub>8</sub></b>	4.6 × 100 mm	186002740	4.6 × 150 mm	186002744
	4.6 × 150 mm	186002741	4.6 × 250 mm	186002745

\*Each Method Validation Kit contains 3 columns, each from a different batch.

## SunFire VanGuard Cartridges

	Dimension	P/N	Dimension	P/N
	Particle Size: 3.5 µm		Particle Size: 5 µm	
<b>C<sub>18</sub></b>	2.1 × 5 mm	186007694	2.1 × 5 mm	186007697
	3.9 × 5 mm	186007696	3.9 × 5 mm	186007699
<b>C<sub>8</sub></b>	2.1 × 5 mm	186007703	2.1 × 5 mm	186007706
	3.9 × 5 mm	186007705	3.9 × 5 mm	186007708

## Universal VanGuard Cartridge Holder

Description	P/N
Universal VanGuard Cartridge Holder	186007949