



## The New Addition To The Inertsil Series

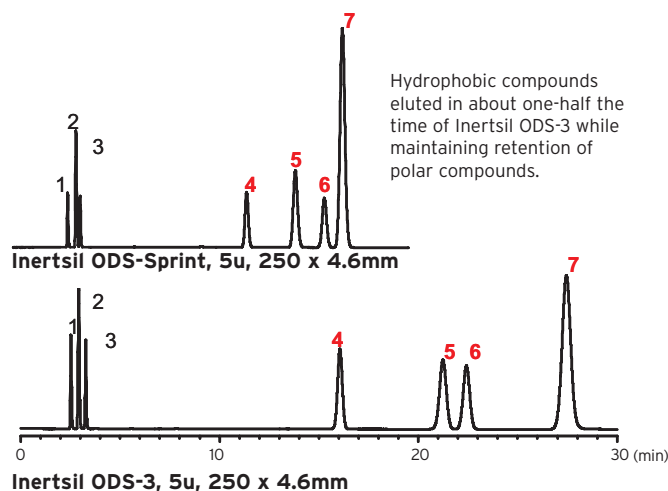
Inertsil ODS-Sprint is an important new addition to the renowned Inertsil HPLC column series. Inertsil ODS-Sprint is super base deactivated and optimally bonded to retain polar compounds without excessive retention of non-polar compounds, so you'll achieve better separations faster than ever before. Like all GL Sciences' advanced phases, ODS-Sprint operates at low back pressure even at high flow rates, shows outstanding longevity, and is endlessly reproducible, from column to column and batch to batch. To complement this outstanding new phase, GL Sciences' created a zero-dead-volume column hardware format, known as Sprint-HG hardware, further enhancing peak symmetry. For additional information, please visit [www.inertsil.com](http://www.inertsil.com).

## Features & Benefits

- Well balanced of retention of both polar and non-polar compounds.
- Superior inertness and base deactivation
- Compatible with completely aqueous or neat organic eluents
- Low operating back pressure
- 20 x 2.1mm column with new Sprint HG hardware is ideal for rapid LC/MS Separations.

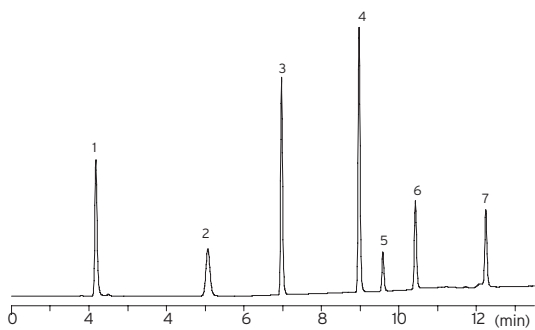
## Phase Characteristics

Particle Size:	5µm
Particle Shape:	Spherical
Specific Surface Area:	450m <sup>2</sup> /g
Pore Size:	100Å
Pore Volume:	1.05mL/g
Purity:	99.999%
Bonded Phase:	Octadecyl silane
Endcapped:	Yes
Carbon Load:	8.5%
USP:	L1
Guaranteed Efficiency:	100,000 p /m



## Well Balanced Retention

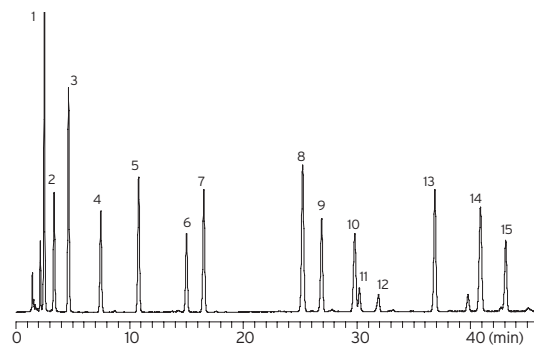
GL Sciences' newly-developed chemical bonding technology allows Inertsil ODS-Sprint to retain hydrophilic compounds (see peaks 1 to 3, at left) without excessive retention of non-polar compounds (see peaks 4 to 7).



#### Simultaneous Analysis of 7 Cold Drug Compounds

**System:** GL-7400 HPLC System, **Column:** Inertsil ODS-SP 5um 150X4.6 mm I.D., **Eluent:** A) MeCN B) 0.1% H<sub>3</sub>PO<sub>4</sub> (A/B) = (10/90)-2min-(10/90)-10min-(100/0), **Flow:** 1.0 mL/min, **Temp:** 40C, **Detector:** UV at 210nm **Sample Volume:** 10uL (10mg/L each)

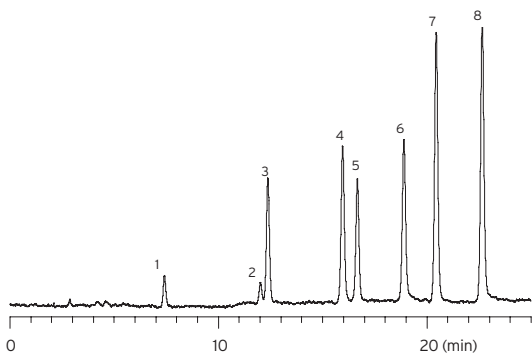
**Sample:** 1. Potassium guaiacolsulfonate 2. Acetaminophen 3. Caffeine 4. Ethenzamide 5. Allyl isopropyl acetyl urea 6. Isopropylantipyrine 7. Ibuprofen



#### Simultaneous Analysis of 15 Food Colorants

**System:** GL-7400 HPLC System, **Column:** Inertsil ODS-SP 5um 150X4.6 mm I.D., **Eluent:** A) MeCN B) 10mM PO<sub>4</sub> buffer (pH 6.9), (A/B) = (10/90)-50min-(35/65) **Flow:** 1.0 mL/min, **Temp:** 40C, **Detector:** UV at 270nm **Sample Volume:** 10uL

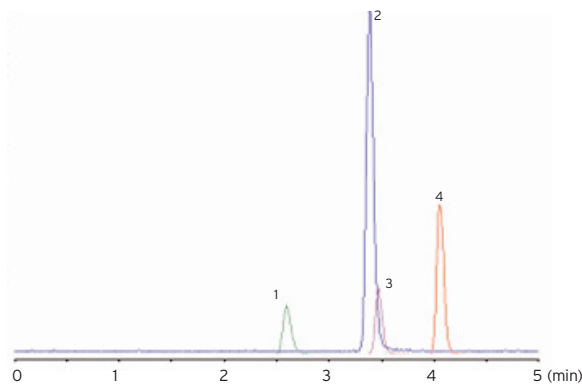
**Sample:** 1) Acid Yellow No.4, 2) Acid Red No.2, 3) Acid Blue No.2, 4) Acid Red No.102, 5) Acid Yellow No.5, 6) Uranine, 7) Acid Red No.40, 8) Ponceau R, 9) Ponceau SX, 10) Orange 1, 11) Acid Green No.3, 12) Acid Blue No.1, 13) Acid Red No.3, 14) Azul Blue VX, 15) Orange 2, 16) Acid Red No.106 3.0mg/L



#### Simultaneous Analysis of 8 Catechin Compounds

**System:** GL-7400 HPLC System, **Column:** Inertsil ODS-SP 5um 150X4.6 mm I.D., **Eluent:** A) MeOH B) 10mM NaH<sub>2</sub>PO<sub>4</sub>, (A/B) = (10/90)-30min-(50/50), **Flow:** 1.0 mL/min, **Temp:** 40C, **Detector:** UV at 280nm **Sample Volume:** 10uL (2mg/L each)

**Sample:** 1) Gallic catechin (GC), 2) Epigallocatechin (EGC), 3) Catechin (C), 4) Epigallocatechin gallate (EGCg), 5) Epicatechin (EC), 6) Gallic catechin gallate (GCg), 7) Epicatechin gallate (ECg), 8) Catechin gallate (Cg)



#### Simultaneous Analysis of 4 Antimicrobial Compounds

**System:** Symbiosis System, **Column:** Inertsil ODS-SP 5um 50X2.1 mm, **Eluent:** A) MeOH B) 0.5mM NH<sub>4</sub>Ac (A/B) = (30/70)-5min-(90/10), **Flow:** 0.2 mL/min, **Temp:** 40C, **Detector:** API2000 LC/MS/MS, ESI, Positive, **Sample Volume:** 10uL (10ug/L each)

**Sample:** 1) 2-NBA-AHD, 2) 2-NBA-AOZ, 3) 2-NBA-SEM, 4) 2-NBA-AMOZ

For additional application and product information on Inertsil ODS-Sprint, please visit [www.inertsil.com](http://www.inertsil.com).

#### Ordering Information

USA Part No.	Phase	Particle Size	Column Dimensions	Japan Part No.
1092L020W021	Inertsil ODS-Sprint	5 micron	20 x 2.1mm	5020-02711
1092L020W046	Inertsil ODS-Sprint	5 micron	20 x 4.6mm	5020-02741
1092L050W021	Inertsil ODS-Sprint	5 micron	50 x 2.1mm	5020-02712
1092L050W046	Inertsil ODS-Sprint	5 micron	50 x 4.6mm	5020-02743
1092L100W046	Inertsil ODS-Sprint	5 micron	100 x 4.6mm	5020-02744
1092L150W046	Inertsil ODS-Sprint	5 micron	150 x 4.6mm	5020-02745
1092L250W046	Inertsil ODS-Sprint	5 micron	250 x 4.6mm	5020-02746

This is only a partial listing. Please visit [www.inertsil.com](http://www.inertsil.com) for a complete listing or inquire by phone at the number shown below.



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