

Shimadzu LC Column Kits for Shimadzu HPLC/UHPLC Systems

Shim-pack Method Development Column Kit

CoreFocus



LC column kits for optimal column selection



Kit types		HPLC	UHPLC	HPLC (LC-MS)	UHPLC (LC-MS)
① L1 Kit for HPLC	C18 only	⊙			
② L1 Kit for HPLC / UHPLC (LC-MS)	C18 only	⊙	⊙	⊙	⊙
③ Maximum Selectivity RP Kit for HPLC / UHPLC Type A		⊙	⊙	○	○
④ Maximum Selectivity RP Kit for HPLC / UHPLC Type B		⊙	⊙	○	○
⑤ Maximum Selectivity RP Kit for HPLC / UHPLC (LC-MS)		○	○	⊙	⊙

*These column kits do not guarantee the appropriate separation for customer analyses.

⊙: Most suitable

○: Compatible

■ Kit composition columns

① L1 Kit for HPLC	
For HPLC (150 mm × 4.6 mm I.D., 5 μm)	
Scepter C18-120	227-31020-05
Scepter HD-C18-80	227-31024-05
Arata C18	227-32805-04
GISS C18	227-30061-06
GIST C18-AQ	227-30742-07
Velox C18	227-32012-03

② L1 Kit for HPLC / UHPLC (LC-MS)			
For HPLC (150 mm × 4.6 mm I.D., 5 μm)		For UHPLC (100 mm × 2.1 mm I.D., 1.8 / 1.9 / 2 μm)	
Scepter C18-120	227-31020-05	Scepter C18-120	227-31012-05
GISS C18	227-30061-06	GISS C18	227-30048-02
GIST C18	227-30017-07	GIST C18	227-30001-04
GIST C18-AQ	227-30742-07	GIST C18-AQ	227-30807-02
Velox C18	227-32012-03	Velox C18	227-32007-03
Velox SP-C18	227-32006-03	Velox SP-C18	227-32001-03

③ Maximum Selectivity RP Kit for HPLC / UHPLC Type A			
For HPLC (150 mm × 4.6 mm I.D., 5 μm)		For UHPLC (100 mm × 2.1 mm I.D., 1.8 / 1.9 μm)	
Scepter C18-120	227-31020-05	Scepter C18-120	227-31012-05
Scepter HD-C18-80	227-31024-05	Scepter HD-C18-80	227-31026-05
Scepter C8-120	227-31041-05	Scepter C8-120	227-31033-05
Scepter Phenyl-120	227-31071-05	Scepter Phenyl-120	227-31063-05
Scepter PFPP-120	227-31061-05	Scepter PFPP-120	227-31053-05
Velox Biphenyl	227-32018-03	Velox Biphenyl	227-32013-03

④ Maximum Selectivity RP Kit for HPLC / UHPLC Type B			
For HPLC (150 mm × 4.6 mm I.D., 5 μm)		For UHPLC (100 mm × 2.1 mm I.D., 1.8 / 1.9 / 2 / 3 μm)	
GIST C18	227-30017-07	GIST C18	227-30001-04
GIST C18-AQ	227-30742-07	GIST C18-AQ	227-30807-02
GIST C8	227-30173-07	GIST C8	227-30160-04
GIST Phenyl-Hexyl	227-30690-05	GIST Phenyl-Hexyl	227-30713-03
Velox PFPP	227-32024-03	Velox PFPP	227-32019-03
Velox Biphenyl	227-32018-03	Velox Biphenyl	227-32013-03

⑤ Maximum Selectivity RP Kit for HPLC / UHPLC (LC-MS)			
For HPLC (150 mm × 4.6 mm I.D., 5 μm)		For UHPLC (100 mm × 2.1 mm I.D., 1.8 / 1.9 μm)	
Scepter C18-120	227-31020-05	Scepter C18-120	227-31012-05
GIST C18-AQ	227-30742-07	GIST C18-AQ	227-30807-02
GISS C18	227-30061-06	GISS C18	227-30048-02
Velox C18	227-32012-03	Velox C18	227-32007-03
Velox PFPP	227-32024-03	Velox PFPP	227-32019-03
Velox Biphenyl	227-32018-03	Velox Biphenyl	227-32013-03

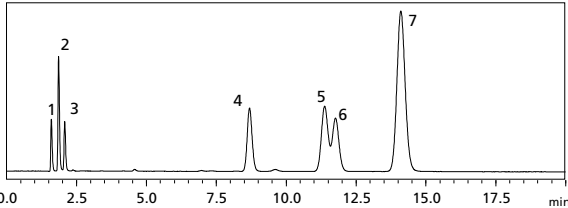
① L1 Kit For HPLC

Peaks

1. Uracil	5. o-Terphenyl
2. Caffeine	6. Amylbenzene
3. Phenol	7. Triphenylene
4. Butylbenzene	

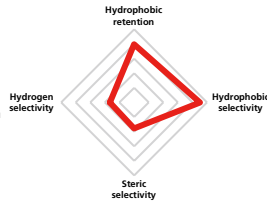
Shim-pack Scepter™ C18-120

Full-porous organosilica C18 Preparative columns are available



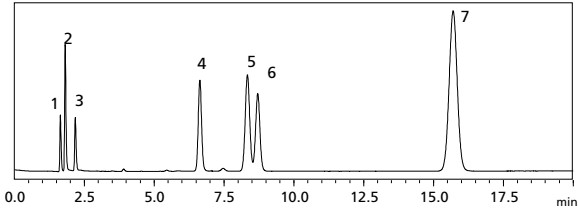
Features :

- Uses organosilica base material with high chemical durability
- Universal C18 column
- High pH tolerance. Three different column bodies can be selected to suit the sample
*The P/N in this brochure has a stainless body
- An inert body (Claris) is the first choice in reversed-phase nucleic acid drug analysis



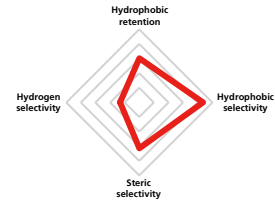
Shim-pack Arata™ C18

Full-porous silica C18



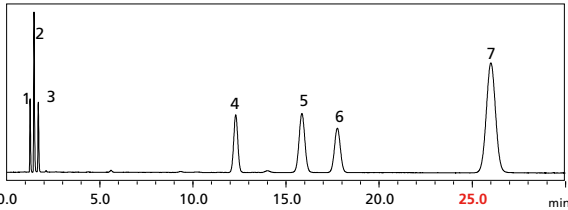
Features :

- Has a unique endcap treatment
- Rapid column equilibration under formic acid/acetic acid mobile phase conditions and sharp peaks for acidic, neutral and basic compounds are obtained
- Low ability to recognize hydrogen bonds and high ability to recognize structures with unique separation properties and characteristic selectivity



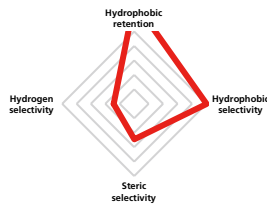
Shim-pack Scepter HD-C18-80

Full-porous organosilica C18 Preparative columns are available



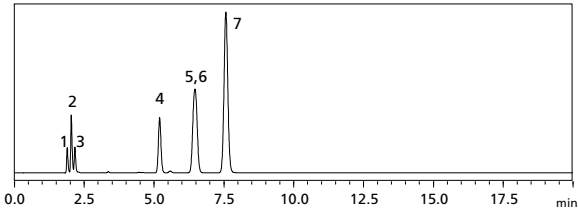
Features :

- Uses organosilica base material with high chemical durability
- High carbon content gives highest hydrophobic retentivity value among Shim-pack columns
- Excellent hydrophobic retention, hydrophobic sex difference recognition and structure recognition, allowing C18 separation of analogs and structural isomers



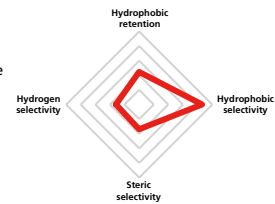
Shim-pack™ GISS C18

Full-porous silica C18 Preparative columns are available



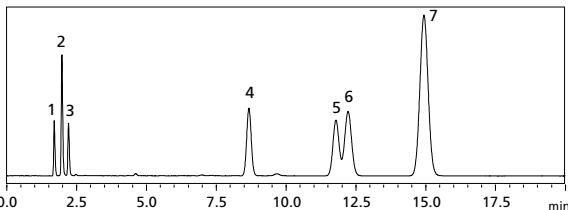
Features :

- Has high pH tolerance (pH 1-10)
- Low hydrophobic retention value; suitable for high-speed analysis
- Recommended for peptide analysis and other analyses with somewhat larger molecular weights



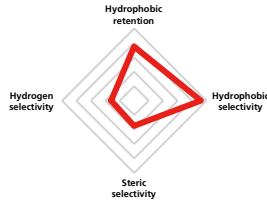
Shim-pack GIST C18-AQ

Full-porous silica C18 Preparative columns are available



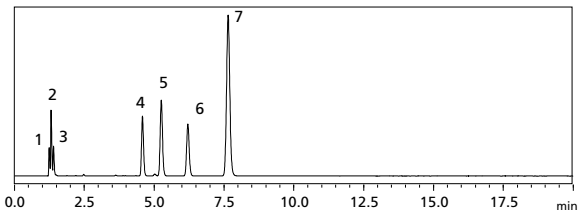
Features :

- Has high pH tolerance (pH 1-10)
- Strongest retention of hydrophilic compounds in the Shim-pack C18 series



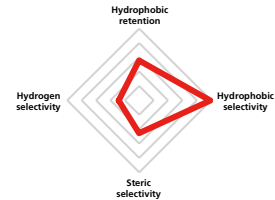
Shim-pack Velox™ C18

Core-shell silica C18



Features :

- A versatile core-shell silica substrate; best for fast analysis
- Has hydrogen bond recognition ability, balanced separation selectivity and standard behavior



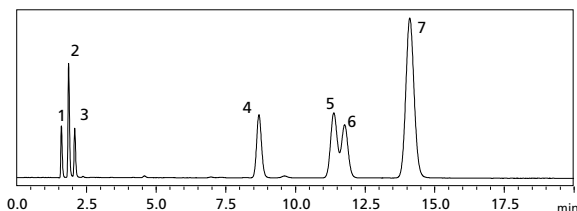
② L1 Kit for HPLC / UHPLC (LC-MS)

Peaks

1. Uracil	5. o-Terphenyl
2. Caffeine	6. Amylbenzene
3. Phenol	7. Triphenylene
4. Butylbenzene	

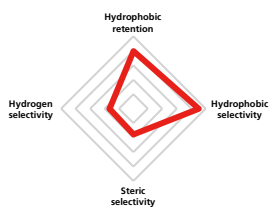
Shim-pack Scepter C18-120

Full-porous organosilica C18 Preparative columns are available



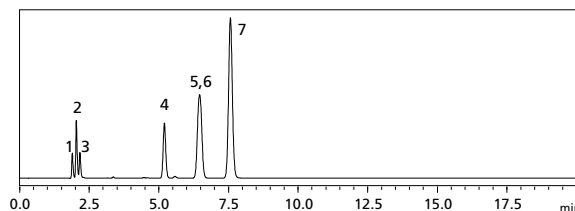
Features :

- Uses organosilica base material with high chemical durability
- Universal C18 column
- High pH tolerance. Three different column bodies can be selected to suit the sample.
- *The P/N in this brochure has a stainless body.
- An inert body (Claris) is the first choice in reversed-phase nucleic acid drug analysis



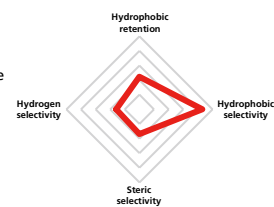
Shim-pack GISS C18

Full-porous silica C18 Preparative columns are available



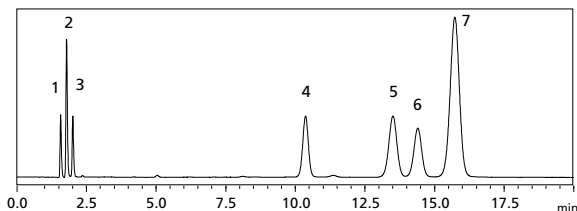
Features :

- Has high pH tolerance (pH 1-10)
- Low hydrophobic retention value; suitable for high-speed analysis
- Recommended for peptide analysis and other analyses with somewhat larger molecular weights



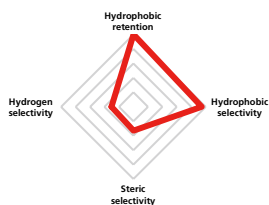
Shim-pack GIST C18

Full-porous silica C18 Preparative columns are available



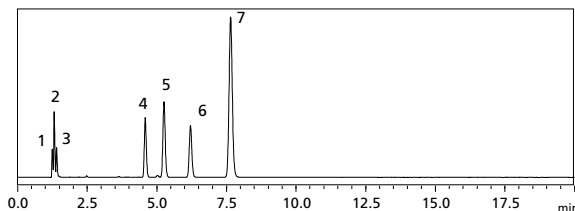
Features :

- Has high pH tolerance (pH 1-10)
- Universal C18 column
- High hydrophobic retention and hydrophobic gender recognition abilities



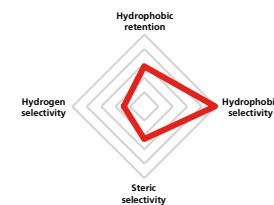
Shim-pack Velox C18

Core-shell silica C18



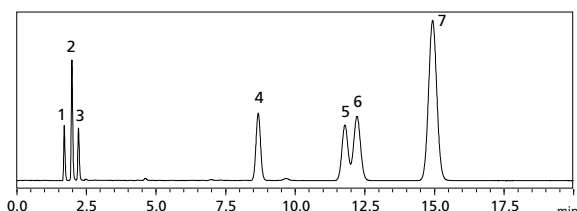
Features :

- A versatile core-shell silica substrate; best for fast analysis
- Has hydrogen bond recognition ability, balanced separation selectivity and standard behavior



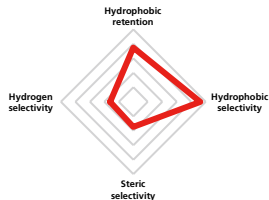
Shim-pack GIST C18-AQ

Full-porous silica C18 Preparative columns are available



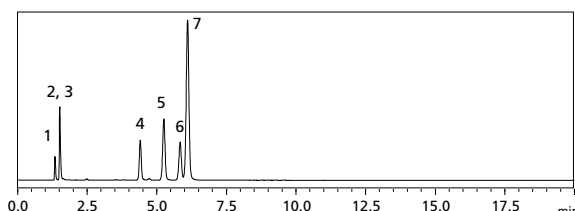
Features :

- Has high pH tolerance (pH 1-10)
- Strongest retention of hydrophilic compounds in the Shim-pack C18 series



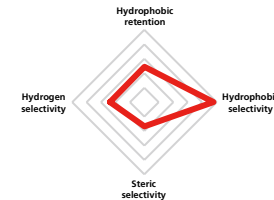
Shim-pack Velox SP-C18

Core-shell silica C18



Features :

- A versatile core-shell silica substrate; best for fast analysis
- Separation selectivity different from Shim-pack Velox C18



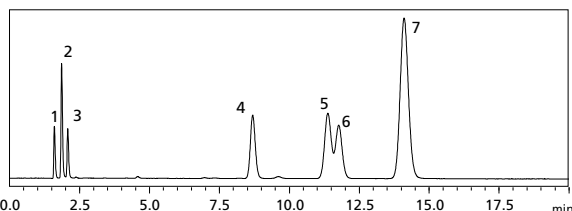
③ Maximum Selectivity RP Kit for HPLC / UHPLC Type A

Peaks

1. Uracil	5. o-Terphenyl
2. Caffeine	6. Amylbenzene
3. Phenol	7. Triphenylene
4. Butylbenzene	

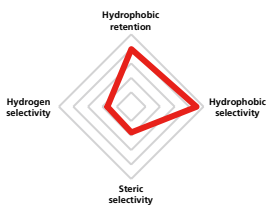
Shim-pack Scepter C18-120

Full-porous organosilica C18 Preparative columns are available



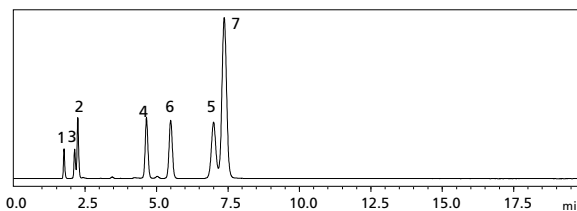
Features :

- Uses organosilica base material with high chemical durability
- Universal C18 column
- High pH tolerance. Three different column bodies can be selected to suit the sample
*The P/N in this brochure has a stainless body
- An inert body (Claris) is the first choice in reversed-phase nucleic acid drug analysis



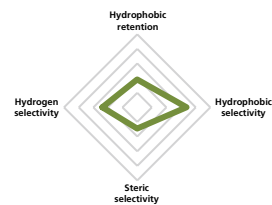
Shim-pack Scepter Phenyl-120

Full-porous organosilica Butyl-phenyl Preparative columns are available



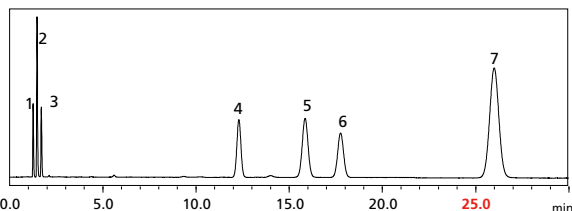
Features :

- High chemical durability (pH range used: 1-10) - Butyl Phenyl type phenyl column
- Phenyl columns from three different column bodies can be used in all aspects
*The P/N in this brochure has a stainless body



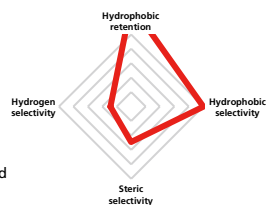
Shim-pack Scepter HD-C18-80

Full-porous organosilica C18 Preparative columns are available



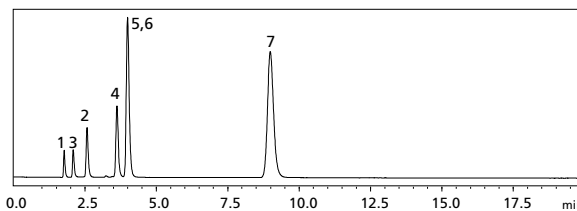
Features :

- Uses organosilica base material with high chemical durability
- High carbon content gives highest hydrophobic retentivity value among Shim-pack columns
- Excellent hydrophobic retention, hydrophobic sex difference recognition and structure recognition, allowing C18 separation of analogs and structural isomers



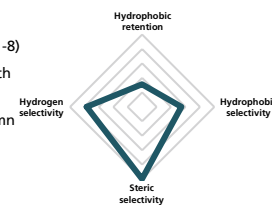
Shim-pack Scepter PFPP-120

Full-porous organosilica PFP Preparative columns are available



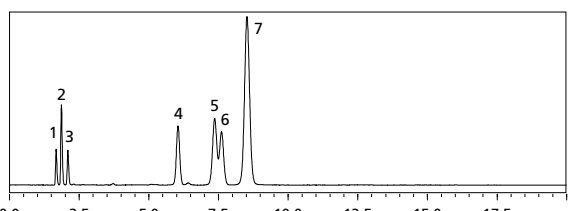
Features :

- High chemical durability (pH range used: 1-8)
- Excellent column for structural isomers with attached PFP groups
- Phenyl columns from three different column bodies can be used in all aspects
*The P/N in this brochure has a stainless body



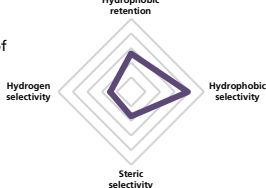
Shim-pack Scepter C8-120

Full-porous organosilica C8 Preparative columns are available



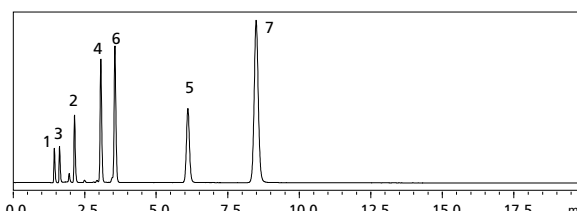
Features :

- Separation selectivity different from that of Shim-pack Scepter C18-120
- High pH tolerance (pH range used: 1-12)



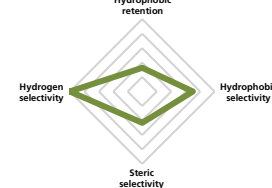
Shim-pack Velox Biphenyl

Core-shell silica Biphenyl Preparative columns are available



Features :

- Uses core-shell silica substrate
- Biphenyl group attached
- Various interactions work, resulting in excellent stereoselectivity and planar recognition



④ Maximum Selectivity RP Kit for HPLC / UHPLC Type B

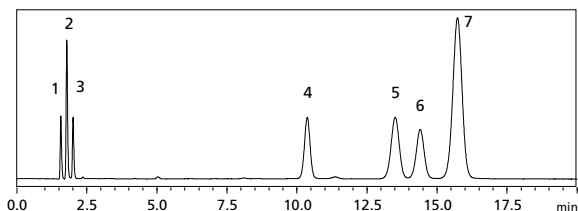
Peaks

- | | |
|-----------------|-----------------|
| 1. Uracil | 5. o-Terphenyl |
| 2. Caffeine | 6. Amylbenzene |
| 3. Phenol | 7. Triphenylene |
| 4. Butylbenzene | |

Shim-pack GIST C18

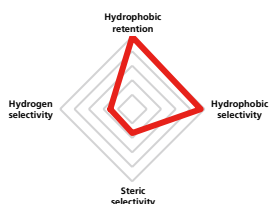
Full-porous silica C18

Preparative columns are available



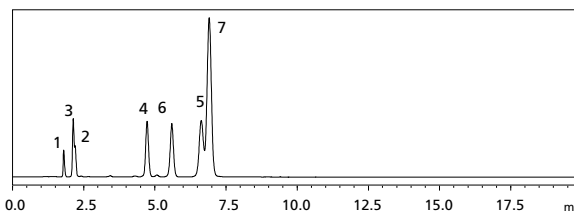
Features :

- Has high pH tolerance (pH 1-10)
- Universal C18 column
- High hydrophobic retention and hydrophobic gender recognition abilities



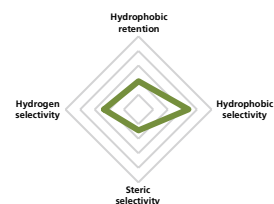
Shim-pack GIST Phenyl-Hexyl

Full-porous silica Hexyl-phenyl



Features :

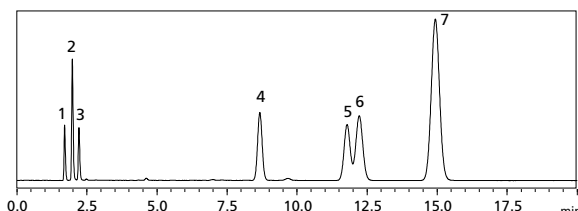
- Adopts highly inert silica base material
- Phenyl-Hexyl bound column



Shim-pack GIST C18-AQ

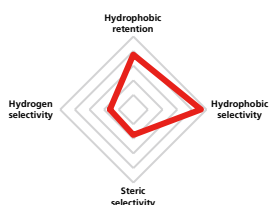
Full-porous silica C18

Preparative columns are available



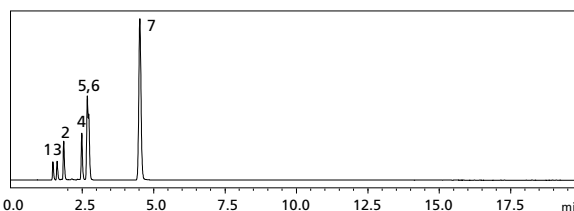
Features :

- Has high pH tolerance (pH 1-10)
- Strongest retention of hydrophilic compounds in the Shim-pack C18 series



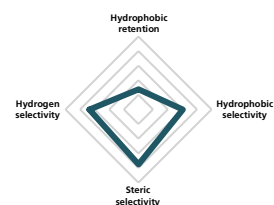
Shim-pack Velox PFPF

Core-shell silica PFP



Features :

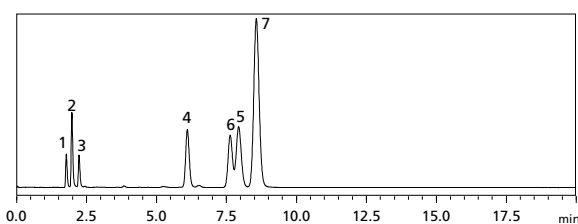
- Uses core-shell silica substrate
- Binds PFP groups
- Various interactions work, resulting in excellent stereoselectivity and planar recognition
- Also good at isomer separation



Shim-pack GIST C8

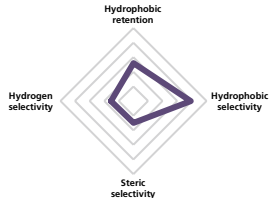
Full-porous silica C8

Preparative columns are available



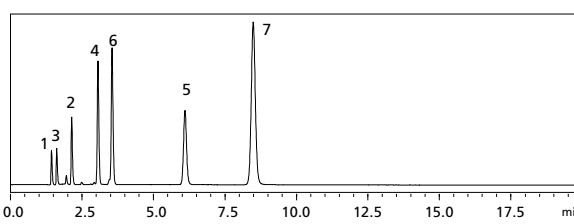
Features :

- Selectivity different from Shim-pack GIST C18
- High pH tolerance (pH range used: 1-10)



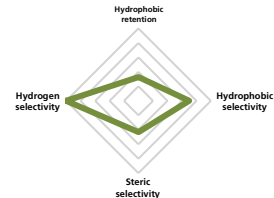
Shim-pack Velox Biphenyl

Core-shell silica Biphenyl



Features :

- Uses core-shell silica substrate
- Biphenyl group attached
- Various interactions work, resulting in excellent stereoselectivity and planar recognition



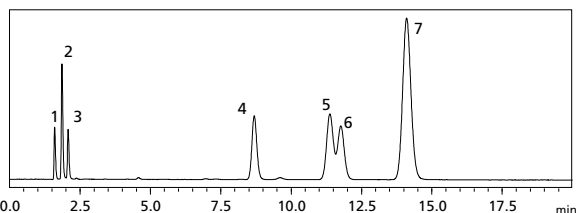
⑤ Maximum Selectivity RP Kit for HPLC / UHPLC (LC-MS)

Peaks

1. Uracil	5. <i>o</i> -Terphenyl
2. Caffeine	6. Amylbenzene
3. Phenol	7. Triphenylene
4. Butylbenzene	

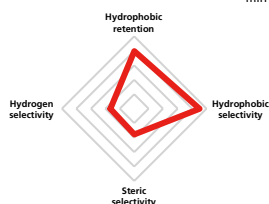
Shim-pack Scepter C18-120

Full-porous organosilica C18 Preparative columns are available



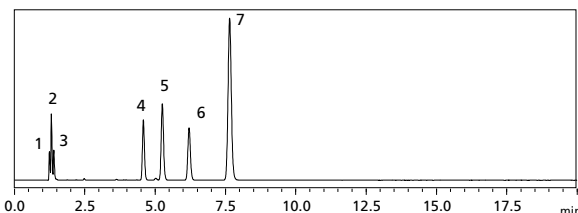
Features :

- Uses organosilica base material with high chemical durability
- Universal C18 column
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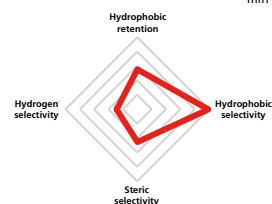
Shim-pack Velox C18

Core-shell silica C18



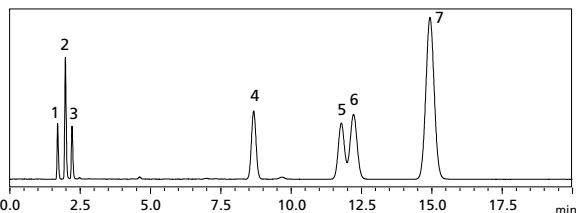
Features :

- A versatile core-shell silica substrate; best for fast analysis
- Has hydrogen bond recognition ability, balanced separation selectivity and standard behavior



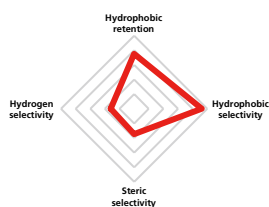
Shim-pack GIST C18-AQ

Full-porous silica C18 Preparative columns are available



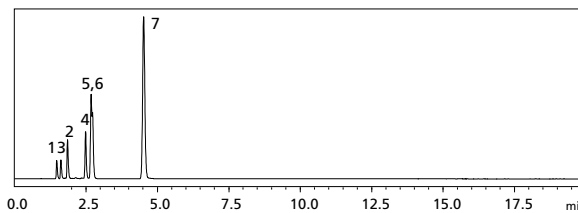
Features :

- Has high pH tolerance (pH 1-10)
- Strongest retention of hydrophilic compounds in the Shim-pack C18 series



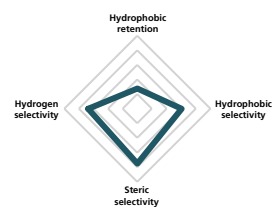
Shim-pack Velox PFPF

Core-shell silica PFP



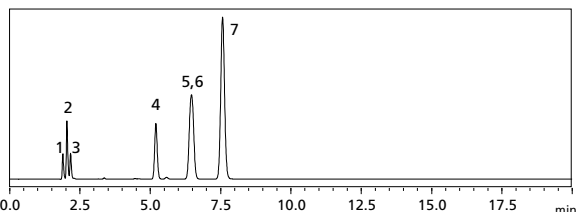
Features :

- Uses core-shell silica substrate
- Binds PFP groups
- Various interactions work, resulting in excellent stereoselectivity and planar recognition
- Also good at isomer separation



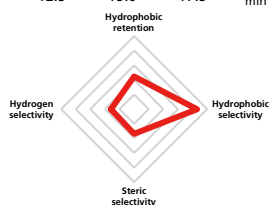
Shim-pack GISS C18

Full-porous silica C18 Preparative columns are available



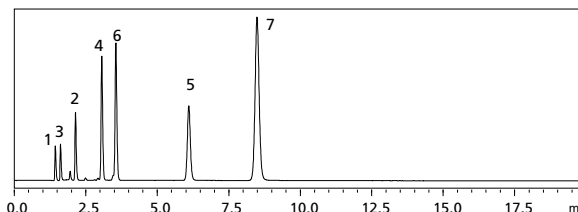
Features :

- Has high pH tolerance (pH 1-10)
- Low hydrophobic retention value; suitable for high-speed analysis
- Recommended for peptide analysis and other analyses with somewhat larger molecular weights



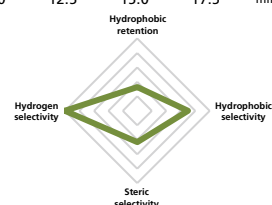
Shim-pack Velox Biphenyl

Core-shell silica Biphenyl



Features :

- Uses core-shell silica substrate
- Biphenyl group attached
- Various interactions work, resulting in excellent stereoselectivity and planar recognition





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