

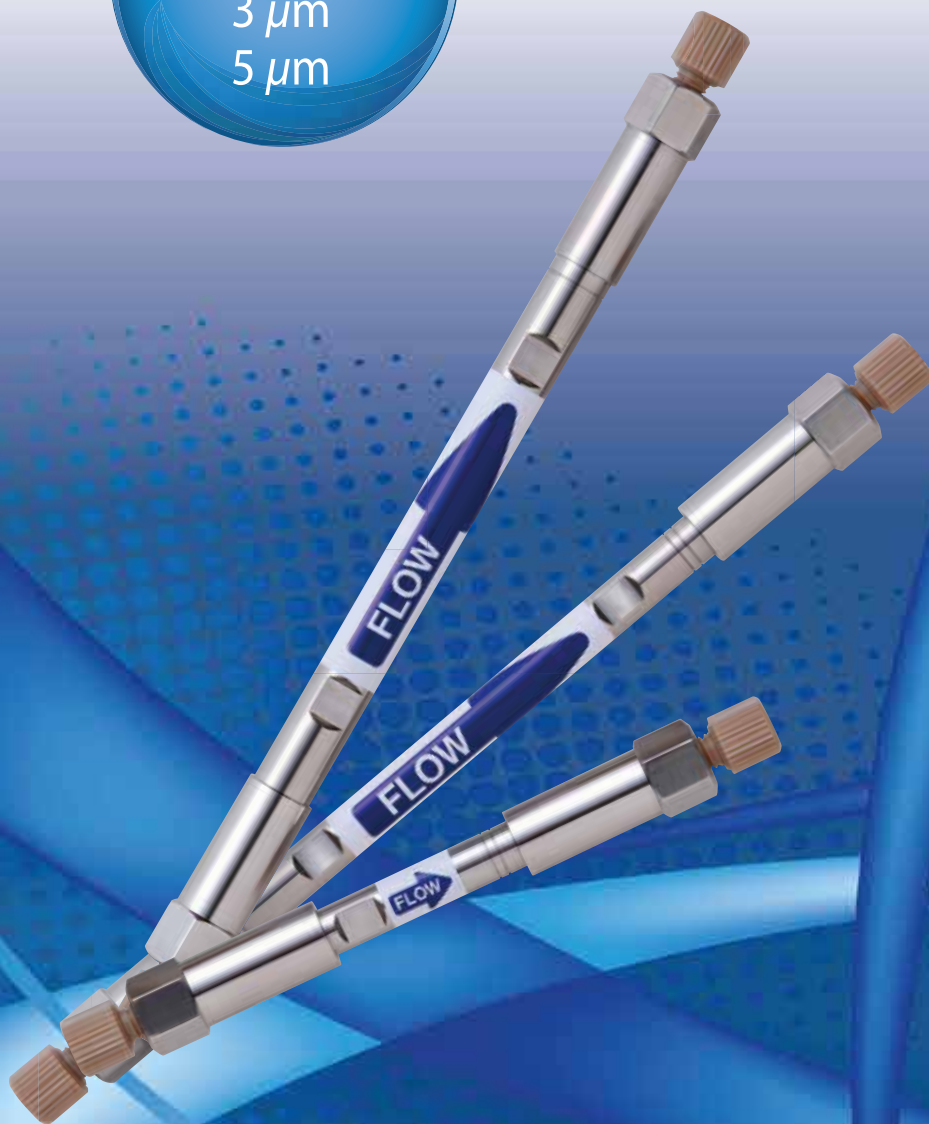


**YMC**  
LF-0023E

# Triart C18 ExRS

## UHPLC & HPLC Columns

Particle size  
1.9  $\mu\text{m}$   
3  $\mu\text{m}$   
5  $\mu\text{m}$



# Triart C18 ExRS

## UHPLC & HPLC Columns

Alternative selectivity to standard C18 columns

### Features

- C18 phase with high density bonding on inorganic/organic hybrid silica gel
- Excellent selectivity of isomers and structural analogs
- Superior chemical durability
- Identical selectivity over particle sizes

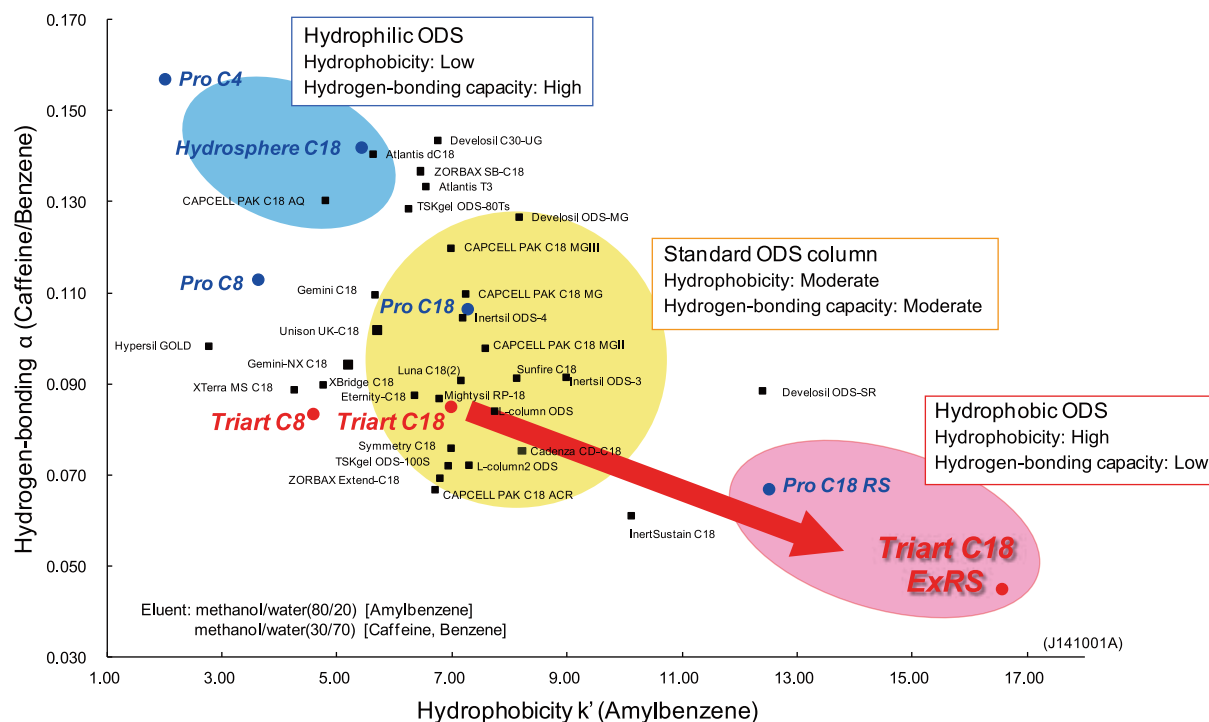
### Specifications

|                       |                                   |
|-----------------------|-----------------------------------|
| Base                  | : Organic/inorganic hybrid silica |
| Particle size         | : 1.9, 3, 5 $\mu\text{m}$         |
| Pore size             | : 8 nm                            |
| Specific surface area | : 430 $\text{m}^2/\text{g}$       |
| Bonding               | : Trifunctional                   |
| Carbon content*       | : 25%                             |
| Endcapping            | : Yes                             |
| pH range              | : 1-12                            |

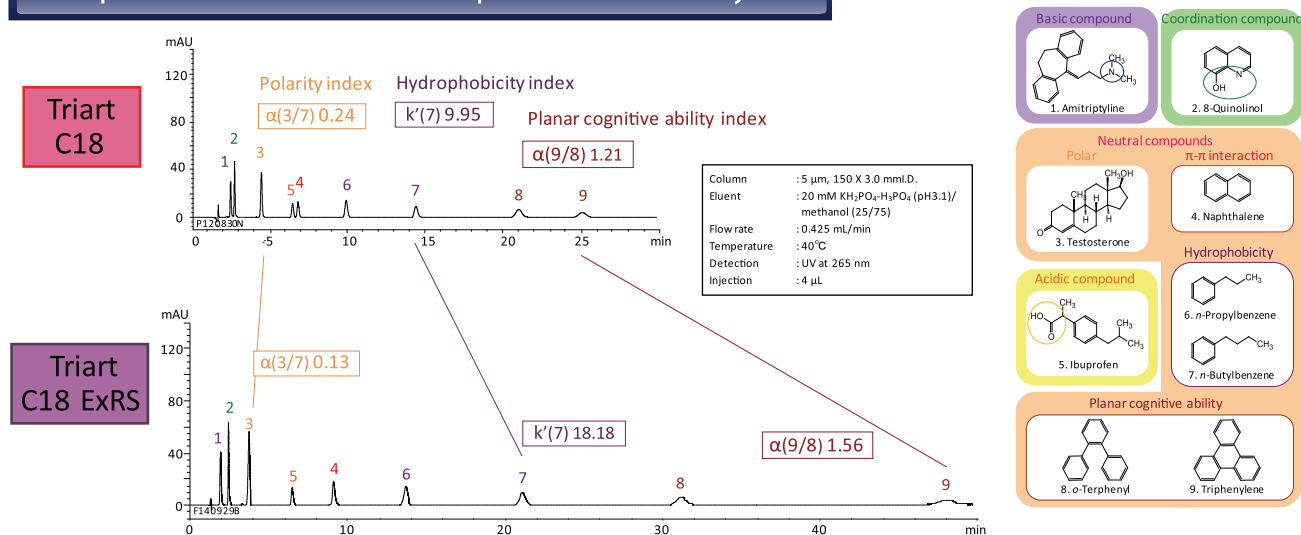
\*Containing 8% carbon for hybrid silica base material

### Alternative selectivity to standard C18 columns

【Comparison of hydrophobicity and hydrogen-bonding capacity of various columns】

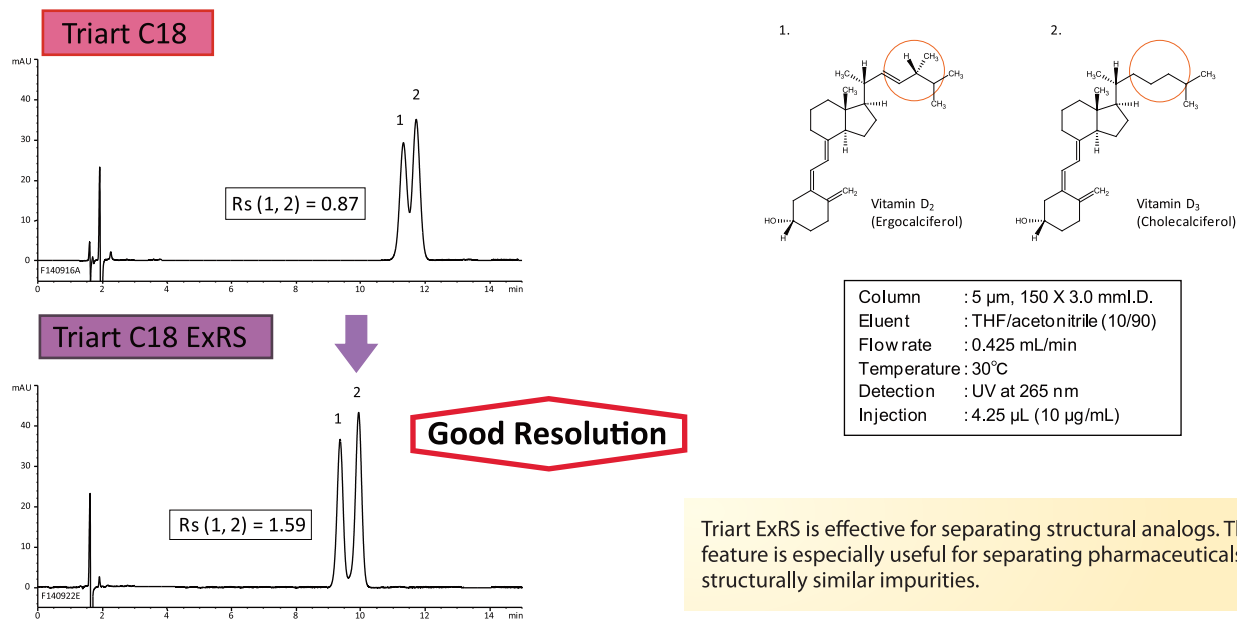


## Comparison of fundamental separation selectivity



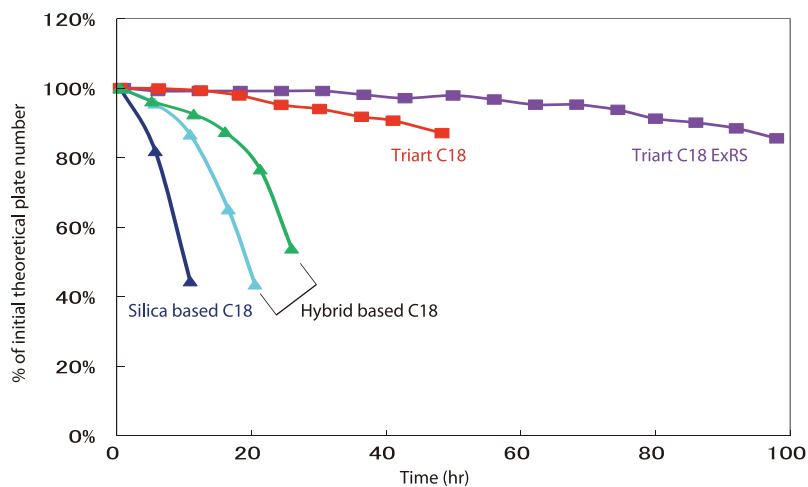
A mixture that consists of compounds with various characteristics is analyzed with Triart C18 and Triart C18 ExRS. Triart C18 ExRS has lower polarity and higher hydrophobicity than the standard Triart C18 column. It also shows improved planar cognitive ability.

## Ideal for separations of structural analogs



Triart ExRS is effective for separating structural analogs. This feature is especially useful for separating pharmaceuticals with structurally similar impurities.

## Improved durability



Column: 5  $\mu$ m, 150 X 4.6 mm I.D.  
Eluent: 50 mM  $\text{K}_2\text{HPO}_4$ - $\text{K}_3\text{PO}_4$  (pH 11.5)/methanol (90/10)  
Flow rate: 1.0 mL/min  
Temperature: 40°C  
Sample: benzyl alcohol

High density bonding of C18 greatly contributes to improved chemical durability.

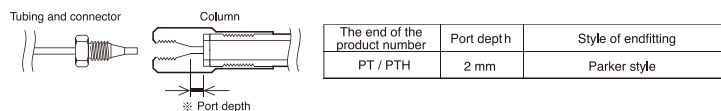
## Ordering information

| Particle size<br>( $\mu\text{m}$ ) | Pore size<br>(nm) | Column size<br>inner diameter X length (mm) | Product number  |
|------------------------------------|-------------------|---------------------------------------------|-----------------|
| 1.9                                | 8                 | 2.0 X 20                                    | TAR08SP9-0202PT |
|                                    |                   | 2.0 X 30                                    | TAR08SP9-0302PT |
|                                    |                   | 2.0 X 50                                    | TAR08SP9-0502PT |
|                                    |                   | 2.0 X 75                                    | TAR08SP9-L502PT |
|                                    |                   | 2.0 X 100                                   | TAR08SP9-1002PT |
|                                    |                   | 2.0 X 150                                   | TAR08SP9-1502PT |
|                                    |                   | 2.1 X 20                                    | TAR08SP9-02Q1PT |
|                                    |                   | 2.1 X 30                                    | TAR08SP9-03Q1PT |
|                                    |                   | 2.1 X 50                                    | TAR08SP9-05Q1PT |
|                                    |                   | 2.1 X 75                                    | TAR08SP9-L5Q1PT |
|                                    |                   | 2.1 X 100                                   | TAR08SP9-10Q1PT |
|                                    |                   | 2.1 X 150                                   | TAR08SP9-15Q1PT |
|                                    |                   | 3.0 X 50                                    | TAR08SP9-0503PT |
|                                    |                   | 3.0 X 75                                    | TAR08SP9-L503PT |
|                                    |                   | 3.0 X 100                                   | TAR08SP9-1003PT |
|                                    |                   | 3.0 X 150                                   | TAR08SP9-1503PT |

| Particle size<br>( $\mu\text{m}$ ) | Pore size<br>(nm) | Column size<br>inner diameter X length (mm) | Product number   |
|------------------------------------|-------------------|---------------------------------------------|------------------|
| 3                                  | 8                 | 2.1 X 20                                    | TAR08S03-02Q1PTH |
|                                    |                   | 2.1 X 33                                    | TAR08S03-H3Q1PTH |
|                                    |                   | 2.1 X 50                                    | TAR08S03-05Q1PTH |
|                                    |                   | 2.1 X 75                                    | TAR08S03-L5Q1PTH |
|                                    |                   | 2.1 X 100                                   | TAR08S03-10Q1PTH |
|                                    |                   | 2.1 X 150                                   | TAR08S03-15Q1PTH |
|                                    |                   | 3.0 X 50                                    | TAR08S03-0503PTH |
|                                    |                   | 3.0 X 75                                    | TAR08S03-L503PTH |
|                                    |                   | 3.0 X 100                                   | TAR08S03-1003PTH |
|                                    |                   | 3.0 X 150                                   | TAR08S03-1503PTH |
|                                    |                   | 4.6 X 33                                    | TAR08S03-H346PTH |
|                                    |                   | 4.6 X 50                                    | TAR08S03-0546PTH |
|                                    |                   | 4.6 X 75                                    | TAR08S03-L546PTH |
|                                    |                   | 4.6 X 100                                   | TAR08S03-1046PTH |
|                                    |                   | 4.6 X 150                                   | TAR08S03-1546PTH |
|                                    |                   | 4.6 X 250                                   | TAR08S03-2546PTH |
| 5                                  | 8                 | 2.1 X 20                                    | TAR08S05-02Q1PTH |
|                                    |                   | 2.1 X 33                                    | TAR08S05-H3Q1PTH |
|                                    |                   | 2.1 X 50                                    | TAR08S05-05Q1PTH |
|                                    |                   | 2.1 X 75                                    | TAR08S05-L5Q1PTH |
|                                    |                   | 2.1 X 100                                   | TAR08S05-10Q1PTH |
|                                    |                   | 2.1 X 150                                   | TAR08S05-15Q1PTH |
|                                    |                   | 3.0 X 50                                    | TAR08S05-0503PTH |
|                                    |                   | 3.0 X 75                                    | TAR08S05-L503PTH |
|                                    |                   | 3.0 X 100                                   | TAR08S05-1003PTH |
|                                    |                   | 3.0 X 150                                   | TAR08S05-1503PTH |
|                                    |                   | 4.0 X 150                                   | TAR08S05-1504PTH |
|                                    |                   | 4.0 X 250                                   | TAR08S05-2504PTH |
|                                    |                   | 4.6 X 33                                    | TAR08S05-H346PTH |
|                                    |                   | 4.6 X 50                                    | TAR08S05-0546PTH |
|                                    |                   | 4.6 X 75                                    | TAR08S05-L546PTH |
|                                    |                   | 4.6 X 100                                   | TAR08S05-1046PTH |
|                                    |                   | 4.6 X 150                                   | TAR08S05-1546PTH |
|                                    |                   | 4.6 X 250                                   | TAR08S05-2546PTH |

※Please inquire concerning configurations not listed above.

### Connector and column fittings.



### Worldwide Availability

**YMC Co., Ltd.**  
www.ymc.co.jp

**YMC Shanghai Rep. Office**  
www.ymcchina.com

**YMC Europe GmbH**  
www.ymc-europe.com

**YMC Singapore Tradelinks Pte. Ltd.**  
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