

NEW

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LF-0023E

# Triart C18 ExRS

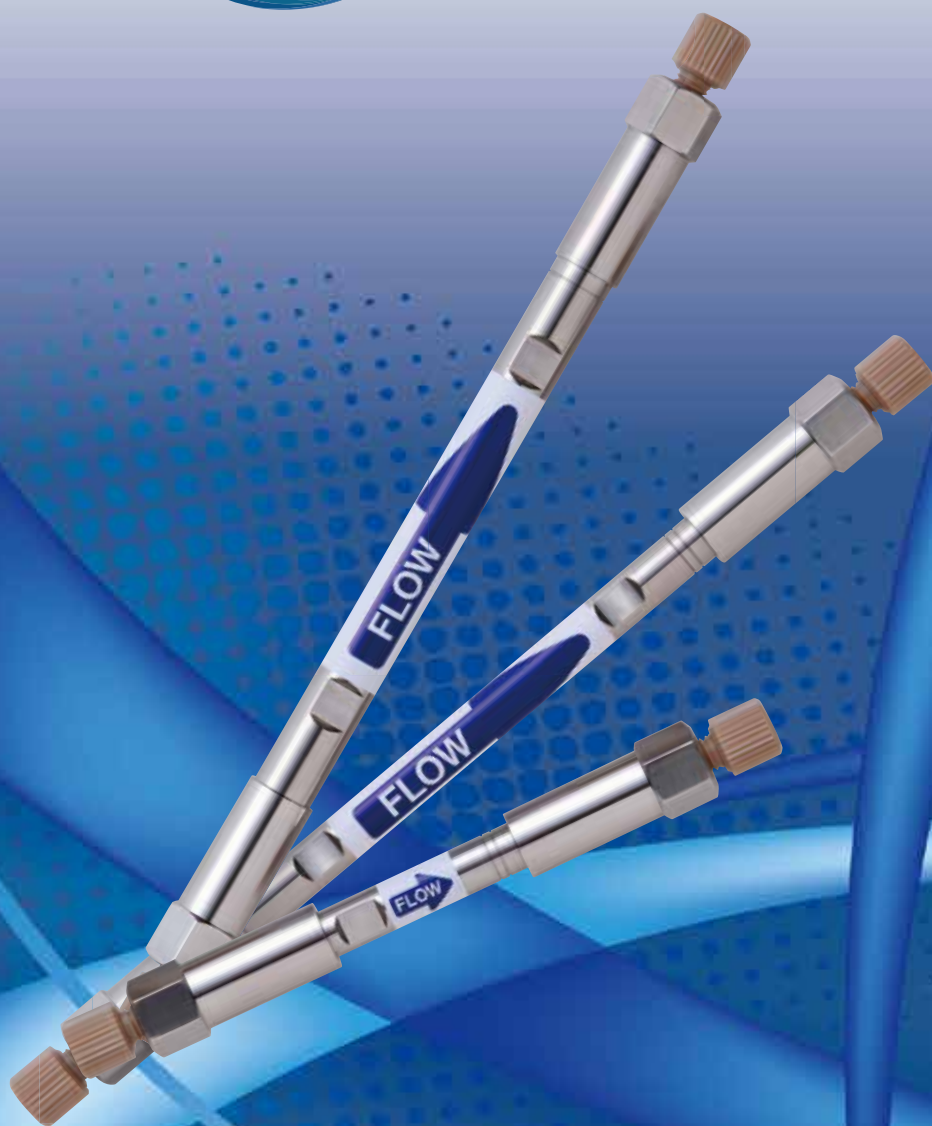
## UHPLC & HPLC Columns

Particle size

1.9  $\mu\text{m}$

3  $\mu\text{m}$

5  $\mu\text{m}$



YMC CO., LTD.

<http://www.ymc.co.jp>

# 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

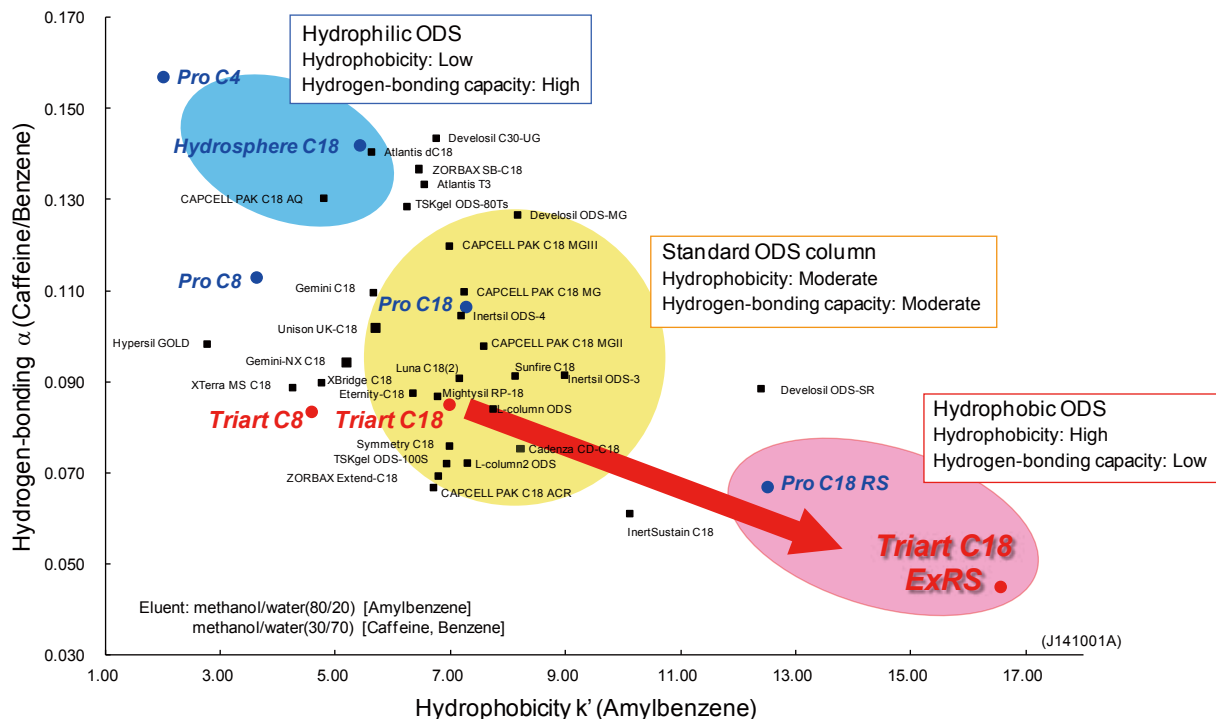
### Specifications

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

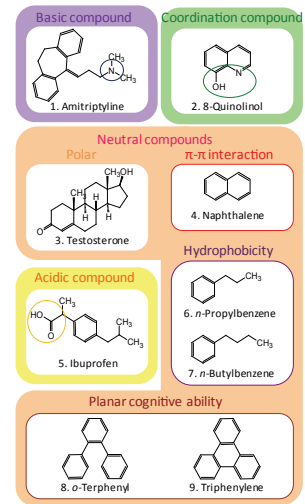
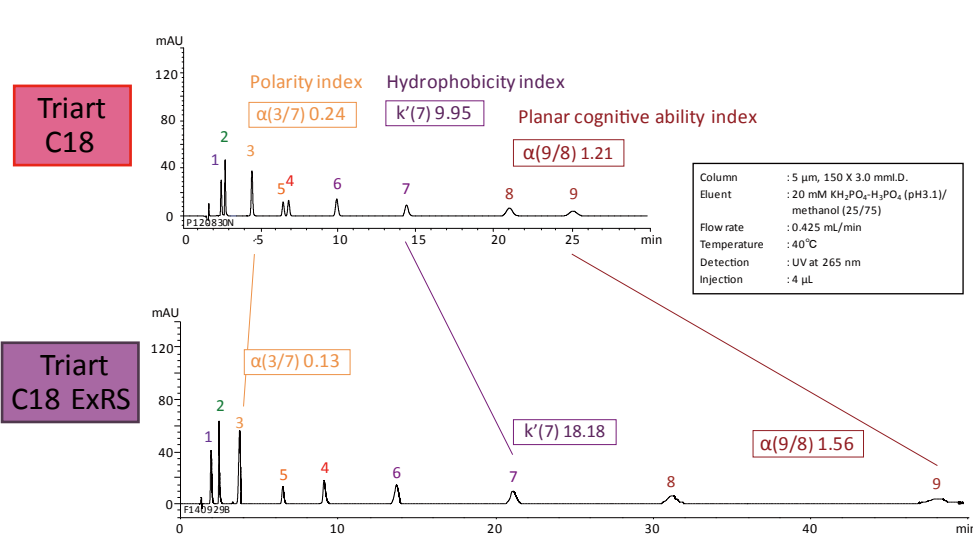
\*Containing 8% carbon for hybrid silica base material

### Alternative selectivity to standard C18 columns

[Comparison of hydrophobicity and hydrogen-bonding capacity of various columns]

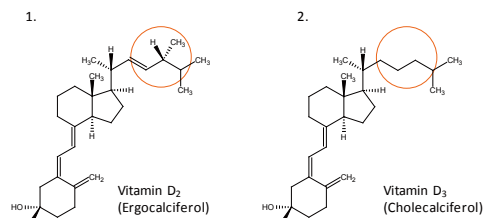
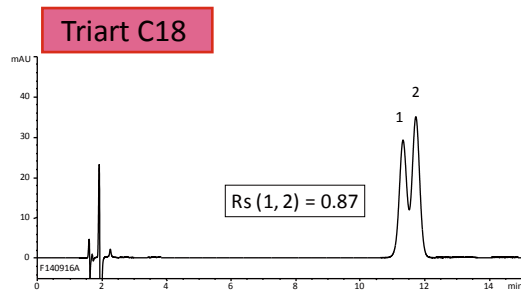


# Comparison of fundamental separation selectivity

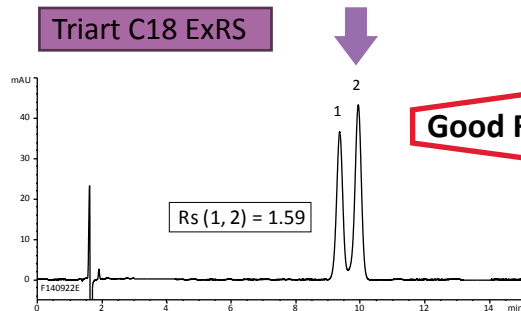


A mixture that consists of compounds with various characteristics is analyzed with Triart C18 and Triart C18 ExRS. Triart C18 ExRS has lower polarity and higher hydrophobicity than the standard Triart C18 column. It also shows improved planar cognitive ability.

# Ideal for separations of structural analogs

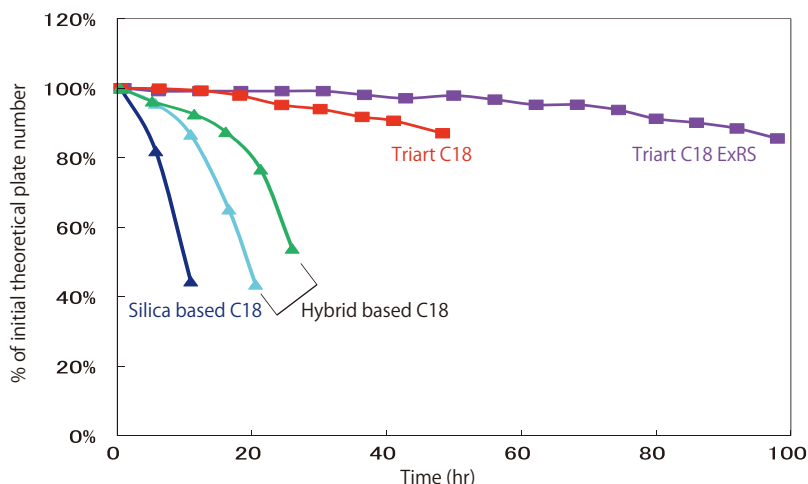


Column : 5 μm, 150 X 3.0 mm I.D.  
Eluent : THF/acetonitrile (10/90)  
Flow rate : 0.425 mL/min  
Temperature : 30°C  
Detection : UV at 265 nm  
Injection : 4.25 μL (10 μg/mL)



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

# Improved durability



Column : 5 μm, 150 X 4.6 mm I.D.  
Eluent : 50 mM K<sub>2</sub>HPO<sub>4</sub>-K<sub>3</sub>PO<sub>4</sub> (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.

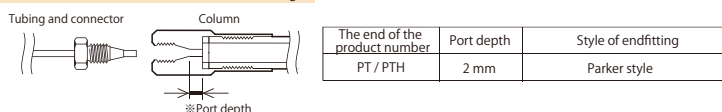
# Ordering information

Particle size (μm)	Pore size (nm)	Column size 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 (μm)	Pore size (nm)	Column size 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 us for a product other than listed above.

## Consideration of connector and column fittings



## Worldwide Availability

**YMC America, Inc.**  
www.ymcamerica.com

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

**YMC India Pvt.Ltd.**  
www.ymcindia.com

**YMC Korea Co., Ltd.**  
www.ymckorea.com

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

**YMC Singapore Tradelinks Pte. Ltd.**  
www.ymc.sg

**YMC Taiwan Co.,Ltd.**  
www.ymctaiwan.com



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