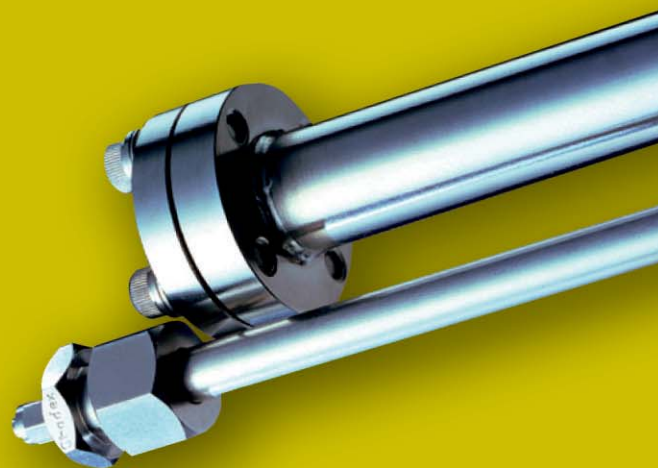


# HPLC Columns Systems Components



Ultra Fast Chromatography

YMC ProFamily

HPLC Columns YMC RP-Classics

Normal Phase Chemistries...

*im*Chem

**YMC**  
**EUROPE GMBH**

# SOMMAIRE

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# ULTRA FAST CHROMATOGRAPHY

## Ultra Fast LC Columns

- YMC-Pack ProFamily chemistries, based on ultra high purity silica, provide excellent resolution for a wide range of analytes
- YMC-UltraHT LC Columns provide considerable time saving without resort to ultra high pressures
- YMC-UltraHT LC Columns achieve ultra fast separations even with conventional HPLC equipment
- Fully up- and down-scalable selectivity

### YMC-UltraHT Pro C18, 12 nm, 2 µm

Column i.d. (mm)	Column length (mm)				
	30	50	75	100	150
2.0	AS12S020302	AS12S020502	AS12S02L502	AS12S021002	AS12S021502
3.0	-	AS12S020503	AS12S02L503	AS12S021003	AS12S021503

### YMC-UltraHT Hydrosphere C18, 12 nm, 2 µm

Column i.d. (mm)	Column length (mm)				
	30	50	75	100	150
2.0	HS12S020302	HS12S020502	HS12S02L502	HS12S021002	HS12S021502
3.0	-	HS12S020503	HS12S02L503	HS12S021003	HS12S021503

## Fast LC

- Reduce run times
- Provide considerable time savings
- Provide the resolution necessary to deal with a range of analytes in a variety of samples with existing HPLC equipment, without resorting to ultrahigh pressure elution techniques

### YMC-Pack Pro C18, 12 nm, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AS12S030302QT	AS12S030502QT	AS12S031002QT	AS12S031502QT	AS12S032502QT	AS12S030102
3.0	AS12S030303QT	AS12S030503QT	AS12S031003QT	AS12S031503QT	AS12S032503QT	AS12S030103
4.0	AS12S030304QT	AS12S030504QT	AS12S031004QT	AS12S031504QT	AS12S032504QT	AS12S030104
4.6	AS12S030346WT	AS12S030546WT	AS12S031046WT	AS12S031546WT	AS12S032546WT	AS12S030104

\* (pack of 5)

### YMC-Pack Pro C18 RS, 8 nm, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	RS08S030302QT	RS08S030502QT	RS08S031002QT	RS08S031502QT	RS08S032502QT	RS08S030102
3.0	RS08S030303QT	RS08S030503QT	RS08S031003QT	RS08S031503QT	RS08S032503QT	RS08S030103
4.0	RS08S030304QT	RS08S030504QT	RS08S031004QT	RS08S031504QT	RS08S032504QT	RS08S030104
4.6	RS08S030346WT	RS08S030546WT	RS08S031046WT	RS08S031546WT	RS08S032546WT	RS08S030104

\* (pack of 5)

### YMC-Pack Hydrosphere C18, 12 nm, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	HS12S030302QT	HS12S030502QT	HS12S031002QT	HS12S031502QT	HS12S032502QT	HS12S030102
3.0	HS12S030303QT	HS12S030503QT	HS12S031003QT	HS12S031503QT	HS12S032503QT	HS12S030103
4.0	HS12S030304QT	HS12S030504QT	HS12S031004QT	HS12S031504QT	HS12S032504QT	HS12S030104
4.6	HS12S030346WT	HS12S030546WT	HS12S031046WT	HS12S031546WT	HS12S032546WT	HS12S030104

\* (pack of 5)

**YMC-Pack Pro C8, 12 nm, 3 µm**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	OS12S030302QT	OS12S030502QT	OS12S031002QT	OS12S031502QT	OS12S032502QT	OS12S030102
3.0	OS12S030303QT	OS12S030503QT	OS12S031003QT	OS12S031503QT	OS12S032503QT	OS12S030103
4.0	OS12S030304QT	OS12S030504QT	OS12S031004QT	OS12S031504QT	OS12S032504QT	OS12S030104
4.6	OS12S030346WT	OS12S030546WT	OS12S031046WT	OS12S031546WT	OS12S032546WT	OS12S030104

\* (pack of 5)

**YMC-Pack Pro C4, 12 nm, 3 µm**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	BS12S030302QT	BS12S030502QT	BS12S031002QT	BS12S031502QT	BS12S032502QT	BS12S030102
3.0	BS12S030303QT	BS12S030503QT	BS12S031003QT	BS12S031503QT	BS12S032503QT	BS12S030103
4.0	BS12S030304QT	BS12S030504QT	BS12S031004QT	BS12S031504QT	BS12S032504QT	BS12S030104
4.6	BS12S030346WT	BS12S030546WT	BS12S031046WT	BS12S031546WT	BS12S032546WT	BS12S030104

\* (pack of 5)

**YMC PAH, 3 µm**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	YP99S030302QT	YP99S030502QT	YP99S031002QT	YP99S031502QT	YP99S032502QT	YP99S030102
3.0	YP99S030303QT	YP99S030503QT	YP99S031003QT	YP99S031503QT	YP99S032503QT	YP99S030103
4.0	YP99S030304QT	YP99S030504QT	YP99S031004QT	YP99S031504QT	YP99S032504QT	YP99S030104
4.6	YP99S030346WT	YP99S030546WT	YP99S031046WT	YP99S031546WT	YP99S032546WT	YP99S030104

\* (pack of 5)

# THE PRO FAMILY

**YMC ProFamily**

- Ultra high purity silica
- Every packed column supplied with:
  - lot certificate on physicochemical properties of bare silica, minimal metal traces, bonding and chromatographic performance
  - test chromatogram showing high performance plate count together with tight specification on peak symmetry



## YMC-Pack Pro C18

- Specifically designed for pharmaceutical and biotechnology R&D
- UltraHT Pro C18 for Fast-LC (2µm particle size)
- Extremely narrow specifications
- High lot-to-lot reproducibility
- High column-to-column reproducibility
- Ideal for basic, acidic and polar compounds

### YMC-Pack Pro C18, 12 nm, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AS12S030302QT	AS12S030502QT	AS12S031002QT	AS12S031502QT	AS12S032502QT	AS12S030102
3.0	AS12S030303QT	AS12S030503QT	AS12S031003QT	AS12S031503QT	AS12S032503QT	AS12S030103
4.0	AS12S030304QT	AS12S030504QT	AS12S031004QT	AS12S031504QT	AS12S032504QT	AS12S030104
4.6	AS12S030346WT	AS12S030546WT	AS12S031046WT	AS12S031546WT	AS12S032546WT	AS12S030104

\* (pack of 5)

### YMC-Pack Pro C18, 12 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AS12S050302QT	AS12S050502QT	AS12S051002QT	AS12S051502QT	AS12S052502QT	AS12S050102
3.0	AS12S050303QT	AS12S050503QT	AS12S051003QT	AS12S051503QT	AS12S052503QT	AS12S050103
4.0	AS12S050304QT	AS12S050504QT	AS12S051004QT	AS12S051504QT	AS12S052504QT	AS12S050104
4.6	AS12S050346WT	AS12S050546WT	AS12S051046WT	AS12S051546WT	AS12S052546WT	AS12S050104

\* (pack of 5)

## YMC-Pack Pro C8

- Extremely broad selectivity pattern
- Good alternative to C18-phases
- Excellent stability in acidic and alkaline eluents
- Suitable for all types of organic molecules, especially basic pharmaceuticals

### YMC-Pack Pro C8, 12 nm, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	OS12S030302QT	OS12S030502QT	OS12S031002QT	OS12S031502QT	OS12S032502QT	OS12S030102
3.0	OS12S030303QT	OS12S030503QT	OS12S031003QT	OS12S031503QT	OS12S032503QT	OS12S030103
4.0	OS12S030304QT	OS12S030504QT	OS12S031004QT	OS12S031504QT	OS12S032504QT	OS12S030104
4.6	OS12S030346WT	OS12S030546WT	OS12S031046WT	OS12S031546WT	OS12S032546WT	OS12S030104

\* (pack of 5)

### YMC-Pack Pro C8, 12 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	OS12S050302QT	OS12S050502QT	OS12S051002QT	OS12S051502QT	OS12S052502QT	OS12S050102
3.0	OS12S050303QT	OS12S050503QT	OS12S051003QT	OS12S051503QT	OS12S052503QT	OS12S050103
4.0	OS12S050304QT	OS12S050504QT	OS12S051004QT	OS12S051504QT	OS12S052504QT	OS12S050104
4.6	OS12S050346WT	OS12S050546WT	OS12S051046WT	OS12S051546WT	OS12S052546WT	OS12S050104

\* (pack of 5)

## YMC-Pack Pro C4

- Excellent stability in acidic to alkaline (pH 7.5) eluents
- Proprietary endcapping in order to minimize the effect of residual silanols
- For polar organic molecules, especially basic pharmaceuticals and peptides
- Ideal for fast chromatography

### YMC-Pack Pro C4, 12 nm, 3 $\mu$ m

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	BS12S030302QT	BS12S030502QT	BS12S031002QT	BS12S031502QT	BS12S032502QT	BS12S030102
3.0	BS12S030303QT	BS12S030503QT	BS12S031003QT	BS12S031503QT	BS12S032503QT	BS12S030103
4.0	BS12S030304QT	BS12S030504QT	BS12S031004QT	BS12S031504QT	BS12S032504QT	BS12S030104
4.6	BS12S030346WT	BS12S030546WT	BS12S031046WT	BS12S031546WT	BS12S032546WT	BS12S030104

\* (pack of 5)

### YMC-Pack Pro C4, 12 nm, 5 $\mu$ m

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	BS12S050302QT	BS12S050502QT	BS12S051002QT	BS12S051502QT	BS12S052502QT	BS12S050102
3.0	BS12S050303QT	BS12S050503QT	BS12S051003QT	BS12S051503QT	BS12S052503QT	BS12S050103
4.0	BS12S050304QT	BS12S050504QT	BS12S051004QT	BS12S051504QT	BS12S052504QT	BS12S050104
4.6	BS12S050346WT	BS12S050546WT	BS12S051046WT	BS12S051546WT	BS12S052546WT	BS12S050104

\* (pack of 5)

## YMC-Pack Pro C18 RS

- Highly hydrophobic due to carbon content of 22%
- Exhibits extraordinary steric selectivity
- Extended pH and temperature stability
- For the separation of hydrophobic, acidic and basic molecules

### YMC-Pack Pro C18 RS, 8 nm, 3 $\mu$ m

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	RS08S030302QT	RS08S030502QT	RS08S031002QT	RS08S031502QT	RS08S032502QT	RS08S030102
3.0	RS08S030303QT	RS08S030503QT	RS08S031003QT	RS08S031503QT	RS08S032503QT	RS08S030103
4.0	RS08S030304QT	RS08S030504QT	RS08S031004QT	RS08S031504QT	RS08S032504QT	RS08S030104
4.6	RS08S030346WT	RS08S030546WT	RS08S031046WT	RS08S031546WT	RS08S032546WT	RS08S030104

\* (pack of 5)

### YMC-Pack Pro C18 RS, 8 nm, 5 $\mu$ m

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	RS08S050302QT	RS08S050502QT	RS08S051002QT	RS08S051502QT	RS08S052502QT	RS08S050102
3.0	RS08S050303QT	RS08S050503QT	RS08S051003QT	RS08S051503QT	RS08S052503QT	RS08S050103
4.0	RS08S050304QT	RS08S050504QT	RS08S051004QT	RS08S051504QT	RS08S052504QT	RS08S050104
4.6	RS08S050346WT	RS08S050546WT	RS08S051046WT	RS08S051546WT	RS08S052546WT	RS08S050104

\* (pack of 5)



## Hydrosphere C18

- Stable under the use of 100% aqueous eluent
- UltraHT Hydrosphere for Fast-LC (2µm particle size)
- "Hydrophilic" C18 surface for enhanced polar recognition
- No need for ion pair reagents
- Based on highly inert, ultrapure, pH neutral silica
- Specifically designed for pharmaceutical and biotechnology R&D

### YMC-Pack Hydrosphere C18, 12 nm, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	HS12S030302QT	HS12S030502QT	HS12S031002QT	HS12S031502QT	HS12S032502QT	HS12S030102
3.0	HS12S030303QT	HS12S030503QT	HS12S031003QT	HS12S031503QT	HS12S032503QT	HS12S030103
4.0	HS12S030304QT	HS12S030504QT	HS12S031004QT	HS12S031504QT	HS12S032504QT	HS12S030104
4.6	HS12S030346WT	HS12S030546WT	HS12S031046WT	HS12S031546WT	HS12S032546WT	HS12S030104

\*(pack of 5)

### YMC-Pack Hydrosphere C18, 12 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	HS12S050302QT	HS12S050502QT	HS12S051002QT	HS12S051502QT	HS12S052502QT	HS12S050102
3.0	HS12S050303QT	HS12S050503QT	HS12S051003QT	HS12S051503QT	HS12S052503QT	HS12S050103
4.0	HS12S050304QT	HS12S050504QT	HS12S051004QT	HS12S051504QT	HS12S052504QT	HS12S050104
4.6	HS12S050346WT	HS12S050546WT	HS12S051046WT	HS12S051546WT	HS12S052546WT	HS12S050104

\*(pack of 5)

# HPLC COLUMNS YMC RP-CLASSICS

## YMC-Pack ODS-AQ

- "hydrophilic" C18
- balanced surface chemistry
- polar recognition
- metabolite recognition

### YMC-Pack ODS-AQ, 12 nm, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AQ12S030302QT	AQ12S030502QT	AQ12S031002QT	AQ12S031502QT	AQ12S032502QT	AQ12S030102
3.0	AQ12S030303QT	AQ12S030503QT	AQ12S031003QT	AQ12S031503QT	AQ12S032503QT	AQ12S030103
4.0	AQ12S030304QT	AQ12S030504QT	AQ12S031004QT	AQ12S031504QT	AQ12S032504QT	AQ12S030104
4.6	AQ12S030346WT	AQ12S030546WT	AQ12S031046WT	AQ12S031546WT	AQ12S032546WT	AQ12S030104

\*(pack of 5)

### YMC-Pack ODS-AQ, 12 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AQ12S050302QT	AQ12S050502QT	AQ12S051002QT	AQ12S051502QT	AQ12S052502QT	AQ12S050102
3.0	AQ12S050303QT	AQ12S050503QT	AQ12S051003QT	AQ12S051503QT	AQ12S052503QT	AQ12S050103
4.0	AQ12S050304QT	AQ12S050504QT	AQ12S051004QT	AQ12S051504QT	AQ12S052504QT	AQ12S050104
4.6	AQ12S050346WT	AQ12S050546WT	AQ12S051046WT	AQ12S051546WT	AQ12S052546WT	AQ12S050104

\*(pack of 5)

**YMC-Pack ODS-AQ, 20 nm, 3  $\mu$ m**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AQ20S030302QT	AQ20S030502QT	AQ20S031002QT	AQ20S031502QT	AQ20S032502QT	AQ20S030102
3.0	AQ20S030303QT	AQ20S030503QT	AQ20S031003QT	AQ20S031503QT	AQ20S032503QT	AQ20S030103
4.0	AQ20S030304QT	AQ20S030504QT	AQ20S031004QT	AQ20S031504QT	AQ20S032504QT	AQ20S030104
4.6	AQ20S030346WT	AQ20S030546WT	AQ20S031046WT	AQ20S031546WT	AQ20S032546WT	AQ20S030104

\* (pack of 5)

**YMC-Pack ODS-AQ, 20 nm, 5  $\mu$ m**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AQ20S050302QT	AQ20S050502QT	AQ20S051002QT	AQ20S051502QT	AQ20S052502QT	AQ20S050102
3.0	AQ20S050303QT	AQ20S050503QT	AQ20S051003QT	AQ20S051503QT	AQ20S052503QT	AQ20S050103
4.0	AQ20S050304QT	AQ20S050504QT	AQ20S051004QT	AQ20S051504QT	AQ20S052504QT	AQ20S050104
4.6	AQ20S050346WT	AQ20S050546WT	AQ20S051046WT	AQ20S051546WT	AQ20S052546WT	AQ20S050104

\* (pack of 5)

**YMC-Pack ODS-A**

- Fully endcapped C18 material
- Classic "workhorse" phase
- Highly versatile ODS phase
- For polar to moderately nonpolar pharmaceuticals, organic chemicals, biologicals and natural products

**YMC-Pack ODS-A, 12 nm, 3  $\mu$ m**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AA12S030302QT	AA12S030502QT	AA12S031002QT	AA12S031502QT	AA12S032502QT	AA12S030102
3.0	AA12S030303QT	AA12S030503QT	AA12S031003QT	AA12S031503QT	AA12S032503QT	AA12S030103
4.0	AA12S030304QT	AA12S030504QT	AA12S031004QT	AA12S031504QT	AA12S032504QT	AA12S030104
4.6	AA12S030346WT	AA12S030546WT	AA12S031046WT	AA12S031546WT	AA12S032546WT	AA12S030104

\* (pack of 5)

**YMC-Pack ODS-A, 12 nm, 5  $\mu$ m**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AA12S050302QT	AA12S050502QT	AA12S051002QT	AA12S051502QT	AA12S052502QT	AA12S050102
3.0	AA12S050303QT	AA12S050503QT	AA12S051003QT	AA12S051503QT	AA12S052503QT	AA12S050103
4.0	AA12S050304QT	AA12S050504QT	AA12S051004QT	AA12S051504QT	AA12S052504QT	AA12S050104
4.6	AA12S050346WT	AA12S050546WT	AA12S051046WT	AA12S051546WT	AA12S052546WT	AA12S050104

\* (pack of 5)

**YMC-Pack ODS-A, 20 nm, 3  $\mu$ m**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AA20S030302QT	AA20S030502QT	AA20S031002QT	AA20S031502QT	AA20S032502QT	AA20S030102
3.0	AA20S030303QT	AA20S030503QT	AA20S031003QT	AA20S031503QT	AA20S032503QT	AA20S030103
4.0	AA20S030304QT	AA20S030504QT	AA20S031004QT	AA20S031504QT	AA20S032504QT	AA20S030104
4.6	AA20S030346WT	AA20S030546WT	AA20S031046WT	AA20S031546WT	AA20S032546WT	AA20S030104

\* (pack of 5)

### YMC-Pack ODS-A, 20 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AA20S050302QT	AA20S050502QT	AA20S051002QT	AA20S051502QT	AA20S052502QT	AA20S050102
3.0	AA20S050303QT	AA20S050503QT	AA20S051003QT	AA20S051503QT	AA20S052503QT	AA20S050103
4.0	AA20S050304QT	AA20S050504QT	AA20S051004QT	AA20S051504QT	AA20S052504QT	AA20S050104
4.6	AA20S050346WT	AA20S050546WT	AA20S051046WT	AA20S051546WT	AA20S052546WT	AA20S050104

\* (pack of 5)

### YMC-Pack ODS-A, 30 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AA30S050302QT	AA30S050502QT	AA30S051002QT	AA30S051502QT	AA30S052502QT	AA30S050102
3.0	AA30S050303QT	AA30S050503QT	AA30S051003QT	AA30S051503QT	AA30S052503QT	AA30S050103
4.0	AA30S050304QT	AA30S050504QT	AA20S051004QT	AA30S051504QT	AA30S052504QT	AA30S050104
4.6	AA30S050346WT	AA30S050546WT	AA30S051046WT	AA30S051546WT	AA30S052546WT	AA30S050104

\* (pack of 5)

### YMC-Pack ODS-AM

- High end analytical C18
- Tightly specified
- Long term reproducibility
- For method validation
- For method registration

### YMC-Pack ODS-AM, 12 nm, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AM12S030302QT	AM12S030502QT	AM12S031002QT	AM12S031502QT	AM12S032502QT	AM12S030102
3.0	AM12S030303QT	AM12S030503QT	AM12S031003QT	AM12S031503QT	AM12S032503QT	AM12S030103
4.0	AM12S030304QT	AM12S030504QT	AM12S031004QT	AM12S031504QT	AM12S032504QT	AM12S030104
4.6	AM12S030346WT	AM12S030546WT	AM12S031046WT	AM12S031546WT	AM12S032546WT	AM12S030104

\* (pack of 5)

### YMC-Pack ODS-AM, 12 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AM12S050302QT	AM12S050502QT	AM12S051002QT	AM12S051502QT	AM12S052502QT	AM12S050102
3.0	AM12S050303QT	AM12S050503QT	AM12S051003QT	AM12S051503QT	AM12S052503QT	AM12S050103
4.0	AM12S050304QT	AM12S050504QT	AM12S051004QT	AM12S051504QT	AM12S052504QT	AM12S050104
4.6	AM12S050346WT	AM12S050546WT	AM12S051046WT	AM12S051546WT	AM12S052546WT	AM12S050104

\* (pack of 5)

### YMC-Pack ODS-AL

- Possesses residual silanols for mixed-mode separations
- Same high ligand density as other YMC ODS phases
- Unique selectivity for polar compounds

### YMC-Pack ODS-AL, 12 nm, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AL12S030302QT	AL12S030502QT	AL12S031002QT	AL12S031502QT	AL12S032502QT	AL12S030102
3.0	AL12S030303QT	AL12S030503QT	AL12S031003QT	AL12S031503QT	AL12S032503QT	AL12S030103
4.0	AL12S030304QT	AL12S030504QT	AL12S031004QT	AL12S031504QT	AL12S032504QT	AL12S030104
4.6	AL12S030346WT	AL12S030546WT	AL12S031046WT	AL12S031546WT	AL12S032546WT	AL12S030104

\* (pack of 5)

### YMC-Pack ODS-AL, 12 nm, 5 $\mu$ m

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	AL12S050302QT	AL12S050502QT	AL12S051002QT	AL12S051502QT	AL12S052502QT	AL12S050102
3.0	AL12S050303QT	AL12S050503QT	AL12S051003QT	AL12S051503QT	AL12S052503QT	AL12S050103
4.0	AL12S050304QT	AL12S050504QT	AL12S051004QT	AL12S051504QT	AL12S052504QT	AL12S050104
4.6	AL12S050346WT	AL12S050546WT	AL12S051046WT	AL12S051546WT	AL12S052546WT	AL12S050104

\* (pack of 5)

### YMC-Pack Polymer C18

- Hydrophilic polymethacrylate support
- Excellent reproducibility of C18 chemistry integral to polymer matrix
- No silanol or metal contaminants
- pH stable from pH 2.0 - 13.0
- Compatible with all standard reversed phase solvents

### YMC-Pack Polymer C18, 6 $\mu$ m

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	PC99S060302QT	PC99S060502QT	PC99S061002QT	PC99S061502QT	PC99S062502QT	PC99S060102
3.0	PC99S060303QT	PC99S060503QT	PC99S061003QT	PC99S061503QT	PC99S062503QT	PC99S060103
4.0	PC99S060304QT	PC99S060504QT	PC99S061004QT	PC99S061504QT	PC99S062504QT	PC99S060104
4.6	PC99S060346WT	PC99S060546WT	PC99S061046WT	PC99S061546WT	PC99S062546WT	PC99S060104

\* (pack of 5)

### YMC basic

- Alternative bonding approach to reduce peak tailing of basic pharmaceuticals
- No need for ion pair reagents or amine modifiers
- Complementing selectivity to C8 and C18 materials

### YMC basic, 3 $\mu$ m

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	BA99S030302QT	BA99S030502QT	BA99S031002QT	BA99S031502QT	BA99S032502QT	BA99S030102
3.0	BA99S030303QT	BA99S030503QT	BA99S031003QT	BA99S031503QT	BA99S032503QT	BA99S030103
4.0	BA99S030304QT	BA99S030504QT	BA99S031004QT	BA99S031504QT	BA99S032504QT	BA99S030104
4.6	BA99S030346WT	BA99S030546WT	BA99S031046WT	BA99S031546WT	BA99S032546WT	BA99S030104

\* (pack of 5)

### YMC basic, 5 $\mu$ m

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	BA99S050302QT	BA99S050502QT	BA99S051002QT	BA99S051502QT	BA99S052502QT	BA99S050102
3.0	BA99S050303QT	BA99S050503QT	BA99S051003QT	BA99S051503QT	BA99S052503QT	BA99S050103
4.0	BA99S050304QT	BA99S050504QT	BA99S051004QT	BA99S051504QT	BA99S052504QT	BA99S050104
4.6	BA99S050346WT	BA99S050546WT	BA99S051046WT	BA99S051546WT	BA99S052546WT	BA99S050104

\* (pack of 5)



## YMC-Pack C8 (Octyl)

- Alternative phase to C18 with moderate hydrophobicity
- Suitable for separating samples with relatively high hydrophobicity
- Fully endcapped
- For saccharide type compounds, nucleotides and water-soluble vitamins
- High coverage monomeric bonded chemistry

### YMC-Pack C8, 12 nm, 3 $\mu\text{m}$

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	OC12S030302QT	OC12S030502QT	OC12S031002QT	OC12S031502QT	OC12S032502QT	OC12S030102
3.0	OC12S030303QT	OC12S030503QT	OC12S031003QT	OC12S031503QT	OC12S032503QT	OC12S030103
4.0	OC12S030304QT	OC12S030504QT	OC12S031004QT	OC12S031504QT	OC12S032504QT	OC12S030104
4.6	OC12S030346WT	OC12S030546WT	OC12S031046WT	OC12S031546WT	OC12S032546WT	OC12S030104

\* (pack of 5)

### YMC-Pack C8, 12 nm, 5 $\mu\text{m}$

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	OC12S050302QT	OC12S050502QT	OC12S051002QT	OC12S051502QT	OC12S052502QT	OC12S050102
3.0	OC12S050303QT	OC12S050503QT	OC12S051003QT	OC12S051503QT	OC12S052503QT	OC12S050103
4.0	OC12S050304QT	OC12S050504QT	OC12S051004QT	OC12S051504QT	OC12S052504QT	OC12S050104
4.6	OC12S050346WT	OC12S050546WT	OC12S051046WT	OC12S051546WT	OC12S052546WT	OC12S050104

\* (pack of 5)

### YMC-Pack C8, 20 nm, 3 $\mu\text{m}$

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	OC20S030302QT	OC20S030502QT	OC20S031002QT	OC20S031502QT	OC20S032502QT	OC20S030102
3.0	OC20S030303QT	OC20S030503QT	OC20S031003QT	OC20S031503QT	OC20S032503QT	OC20S030103
4.0	OC20S030304QT	OC20S030504QT	OC20S031004QT	OC20S031504QT	OC20S032504QT	OC20S030104
4.6	OC20S030346WT	OC20S030546WT	OC20S031046WT	OC20S031546WT	OC20S032546WT	OC20S030104

\* (pack of 5)

### YMC-Pack C8, 20 nm, 5 $\mu\text{m}$

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	OC20S050302QT	OC20S050502QT	OC20S051002QT	OC20S051502QT	OC20S052502QT	OC20S050102
3.0	OC20S050303QT	OC20S050503QT	OC20S051003QT	OC20S051503QT	OC20S052503QT	OC20S050103
4.0	OC20S050304QT	OC20S050504QT	OC20S051004QT	OC20S051504QT	OC20S052504QT	OC20S050104
4.6	OC20S050346WT	OC20S050546WT	OC20S051046WT	OC20S051546WT	OC20S052546WT	OC20S050104

\* (pack of 5)

### YMC-Pack C8, 30 nm, 5 $\mu\text{m}$

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	OC30S050302QT	OC30S050502QT	OC30S051002QT	OC30S051502QT	OC30S052502QT	OC30S050102
3.0	OC30S050303QT	OC30S050503QT	OC30S051003QT	OC30S051503QT	OC30S052503QT	OC30S050103
4.0	OC30S050304QT	OC30S050504QT	OC30S051004QT	OC30S051504QT	OC30S052504QT	OC30S050104
4.6	OC30S050346WT	OC30S050546WT	OC30S051046WT	OC30S051546WT	OC30S052546WT	OC30S050104

\* (pack of 5)

## YMC-Pack Ph (Phenyl)

- Fully endcapped, monomeric phenyl phase
- Unique selectivity due to  $\pi$  -  $\pi$  interactions
- Preferential retention of aromatic compounds
- Alternative selectivity to ODS or C4 bonded phases for the analysis of peptides and other biomolecules

### YMC-Pack Ph, 12 nm, 3 $\mu$ m

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	PH12S030302QT	PH12S030502QT	PH12S031002QT	PH12S031502QT	PH12S032502QT	PH12S030102
3.0	PH12S030303QT	PH12S030503QT	PH12S031003QT	PH12S031503QT	PH12S032503QT	PH12S030103
4.0	PH12S030304QT	PH12S030504QT	PH12S031004QT	PH12S031504QT	PH12S032504QT	PH12S030104
4.6	PH12S030346WT	PH12S030546WT	PH12S031046WT	PH12S031546WT	PH12S032546WT	PH12S030104

\* (pack of 5)

### YMC-Pack Ph, 12 nm, 5 $\mu$ m

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	PH12S050302QT	PH12S050502QT	PH12S051002QT	PH12S051502QT	PH12S052502QT	PH12S050102
3.0	PH12S050303QT	PH12S050503QT	PH12S051003QT	PH12S051503QT	PH12S052503QT	PH12S050103
4.0	PH12S050304QT	PH12S050504QT	PH12S051004QT	PH12S051504QT	PH12S052504QT	PH12S050104
4.6	PH12S050346WT	PH12S050546WT	PH12S051046WT	PH12S051546WT	PH12S052546WT	PH12S050104

\* (pack of 5)

### YMC-Pack Ph, 30 nm, 5 $\mu$ m

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	PH30S050302QT	PH30S050502QT	PH30S051002QT	PH30S051502QT	PH30S052502QT	PH30S050102
3.0	PH30S050303QT	PH30S050503QT	PH30S051003QT	PH30S051503QT	PH30S052503QT	PH30S050103
4.0	PH30S050304QT	PH30S050504QT	PH30S051004QT	PH30S051504QT	PH30S052504QT	PH30S050104
4.6	PH30S050346WT	PH30S050546WT	PH30S051046WT	PH30S051546WT	PH30S052546WT	PH30S050104

\* (pack of 5)

## YMC-Pack C4 (Butyl)

- Low hydrophobicity material
- High coverage monomeric bonding
- Ideally suited for separation of biological materials

### YMC-Pack C4, 12 nm, 3 $\mu$ m

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	BU12S030302QT	BU12S030502QT	BU12S031002QT	BU12S031502QT	BU12S032502QT	BU12S030102
3.0	BU12S030303QT	BU12S030503QT	BU12S031003QT	BU12S031503QT	BU12S032503QT	BU12S030103
4.0	BU12S030304QT	BU12S030504QT	BU12S031004QT	BU12S031504QT	BU12S032504QT	BU12S030104
4.6	BU12S030346WT	BU12S030546WT	BU12S031046WT	BU12S031546WT	BU12S032546WT	BU12S030104

\* (pack of 5)

### YMC-Pack C4, 12 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	BU12S050302QT	BU12S050502QT	BU12S051002QT	BU12S051502QT	BU12S052502QT	BU12S050102
3.0	BU12S050303QT	BU12S050503QT	BU12S051003QT	BU12S051503QT	BU12S052503QT	BU12S050103
4.0	BU12S050304QT	BU12S050504QT	BU12S051004QT	BU12S051504QT	BU12S052504QT	BU12S050104
4.6	BU12S050346WT	BU12S050546WT	BU12S051046WT	BU12S051546WT	BU12S052546WT	BU12S050104

\* (pack of 5)

### YMC-Pack C4, 20 nm, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	BU20S030302QT	BU20S030502QT	BU20S031002QT	BU20S031502QT	BU20S032502QT	BU20S030102
3.0	BU20S030303QT	BU20S030503QT	BU20S031003QT	BU20S031503QT	BU20S032503QT	BU20S030103
4.0	BU20S030304QT	BU20S030504QT	BU20S031004QT	BU20S031504QT	BU20S032504QT	BU20S030104
4.6	BU20S030346WT	BU20S030546WT	BU20S031046WT	BU20S031546WT	BU20S032546WT	BU20S030104

\* (pack of 5)

### YMC-Pack C4, 20 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	BU20S050302QT	BU20S050502QT	BU20S051002QT	BU20S051502QT	BU20S052502QT	BU20S050102
3.0	BU20S050303QT	BU20S050503QT	BU20S051003QT	BU20S051503QT	BU20S052503QT	BU20S050103
4.0	BU20S050304QT	BU20S050504QT	BU20S051004QT	BU20S051504QT	BU20S052504QT	BU20S050104
4.6	BU20S050346WT	BU20S050546WT	BU20S051046WT	BU20S051546WT	BU20S052546WT	BU20S050104

\* (pack of 5)

### YMC-Pack C4, 30 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	BU30S050302QT	BU30S050502QT	BU30S051002QT	BU30S051502QT	BU30S052502QT	BU30S050102
3.0	BU30S050303QT	BU30S050503QT	BU30S051003QT	BU30S051503QT	BU30S052503QT	BU30S050103
4.0	BU30S050304QT	BU30S050504QT	BU30S051004QT	BU30S051504QT	BU30S052504QT	BU30S050104
4.6	BU30S050346WT	BU30S050546WT	BU30S051046WT	BU30S051546WT	BU30S052546WT	BU30S050104

\* (pack of 5)

## YMC-Pack TMS (C1)

- Solid phase with the lowest hydrophobicity among reversed phase packing materials
- Shortest of all alkyl bonded phases
- Intermediate polarity between normal phase silica and other alkyl bonded reversed phases
- Operates in either a normal phase or reversed phase mode

### YMC-Pack TMS, 12 nm, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	TM12S030302QT	TM12S030502QT	TM12S031002QT	TM12S031502QT	TM12S032502QT	TM12S030102
3.0	TM12S030303QT	TM12S030503QT	TM12S031003QT	TM12S031503QT	TM12S032503QT	TM12S030103
4.0	TM12S030304QT	TM12S030504QT	TM12S031004QT	TM12S031504QT	TM12S032504QT	TM12S030104
4.6	TM12S030346WT	TM12S030546WT	TM12S031046WT	TM12S031546WT	TM12S032546WT	TM12S030104

\* (pack of 5)

**YMC-Pack TMS, 12 nm, 5 µm**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	TM12S050302QT	TM12S050502QT	TM12S051002QT	TM12S051502QT	TM12S052502QT	TM12S050102
3.0	TM12S050303QT	TM12S050503QT	TM12S031003QT	TM12S051503QT	TM12S052503QT	TM12S050103
4.0	TM12S050304QT	TM12S050504QT	TM12S051004QT	TM12S051504QT	TM12S052504QT	TM12S050104
4.6	TM12S050346WT	TM12S050546WT	TM12S051046WT	TM12S051546WT	TM12S052546WT	TM12S050104

\* (pack of 5)

**YMC-Pack TMS, 30 nm, 5 µm**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	TM30S050302QT	TM30S050502QT	TM30S051002QT	TM30S051502QT	TM30S052502QT	TM30S050102
3.0	TM30S050303QT	TM30S050503QT	TM30S031003QT	TM30S051503QT	TM30S052503QT	TM30S050103
4.0	TM30S050304QT	TM30S050504QT	TM30S051004QT	TM30S051504QT	TM30S052504QT	TM30S050104
4.6	TM30S050346WT	TM30S050546WT	TM30S051046WT	TM30S051546WT	TM30S052546WT	TM30S050104

\* (pack of 5)

**YMC-Pack CN (Cyano)**

- For both normal and reversed phase applications
- Silica gel chemically bound with cyanopropyl groups
- Faster column equilibration than normal silica gel
- Most polar reversed phase column

**YMC-Pack CN, 12 nm, 3 µm**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	CN12S030302QT	CN12S030502QT	CN12S031002QT	CN12S031502QT	CN12S032502QT	CN12S030102
3.0	CN12S030303QT	CN12S030503QT	CN12S031003QT	CN12S031503QT	CN12S032503QT	CN12S030103
4.0	CN12S030304QT	CN12S030504QT	CN12S031004QT	CN12S031504QT	CN12S032504QT	CN12S030104
4.6	CN12S030346WT	CN12S030546WT	CN12S031046WT	CN12S031546WT	CN12S032546WT	CN12S030104

\* (pack of 5)

**YMC-Pack CN, 12 nm, 5 µm**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	CN12S050302QT	CN12S050502QT	CN12S051002QT	CN12S051502QT	CN12S052502QT	CN12S050102
3.0	CN12S050303QT	CN12S050503QT	CN12S031003QT	CN12S051503QT	CN12S052503QT	CN12S050103
4.0	CN12S050304QT	CN12S050504QT	CN12S051004QT	CN12S051504QT	CN12S052504QT	CN12S050104
4.6	CN12S050346WT	CN12S050546WT	CN12S051046WT	CN12S051546WT	CN12S052546WT	CN12S050104

\* (pack of 5)

**YMC-Pack CN, 30 nm, 5 µm**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	CN30S050302QT	CN30S050502QT	CN30S051002QT	CN30S051502QT	CN30S052502QT	CN30S050102
3.0	CN30S050303QT	CN30S050503QT	CN30S031003QT	CN30S051503QT	CN30S052503QT	CN30S050103
4.0	CN30S050304QT	CN30S050504QT	CN30S051004QT	CN30S051504QT	CN30S052504QT	CN30S050104
4.6	CN30S050346WT	CN30S050546WT	CN30S051046WT	CN30S051546WT	CN30S052546WT	CN30S050104

\* (pack of 5)



# NORMAL PHASE CHEMESTRIES

## YMC-Pack SIL (Silica)

- Ultra high purity silica
- High mechanical stability
- Highly porous, totally spherical particles
- Available for analytical, semi-prep, preparative and process scale applications
- Convenient for separation of compounds with similar structures

### YMC-Pack SIL, 6 nm, 3 $\mu\text{m}$

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	SL06S030302QT	SL06S030502QT	SL06S031002QT	SL06S031502QT	SL06S032502QT	SL06S030102
3.0	SL06S030303QT	SL06S030503QT	SL06S031003QT	SL06S031503QT	SL06S032503QT	SL06S030103
4.0	SL06S030304QT	SL06S030504QT	SL06S031004QT	SL06S031504QT	SL06S032504QT	SL06S030104
4.6	SL06S030346WT	SL06S030546WT	SL06S031046WT	SL06S031546WT	SL06S032546WT	SL06S030104

\* (pack of 5)

### YMC-Pack SIL, 12 nm, 3 $\mu\text{m}$

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	SL12S030302QT	SL12S030502QT	SL12S031002QT	SL12S031502QT	SL12S032502QT	SL12S030102
3.0	SL12S030303QT	SL12S030503QT	SL12S031003QT	SL12S031503QT	SL12S032503QT	SL12S030103
4.0	SL12S030304QT	SL12S030504QT	SL12S031004QT	SL12S031504QT	SL12S032504QT	SL12S030104
4.6	SL12S030346WT	SL12S030546WT	SL12S031046WT	SL12S031546WT	SL12S032546WT	SL12S030104

\* (pack of 5)

### YMC-Pack SIL, 20 nm, 3 $\mu\text{m}$

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	SL20S030302QT	SL20S030502QT	SL20S031002QT	SL20S031502QT	SL20S032502QT	SL20S030102
3.0	SL20S030303QT	SL20S030503QT	SL20S031003QT	SL20S031503QT	SL20S032503QT	SL20S030103
4.0	SL20S030304QT	SL20S030504QT	SL20S031004QT	SL20S031504QT	SL20S032504QT	SL20S030104
4.6	SL20S030346WT	SL20S030546WT	SL20S031046WT	SL20S031546WT	SL20S032546WT	SL20S030104

\* (pack of 5)

### YMC-Pack SIL, 6 nm, 5 $\mu\text{m}$

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	SL06S050302QT	SL06S050502QT	SL06S051002QT	SL06S051502QT	SL06S052502QT	SL06S050102
3.0	SL06S050303QT	SL06S050503QT	SL06S051003QT	SL06S051503QT	SL06S052503QT	SL06S050103
4.0	SL06S050304QT	SL06S050504QT	SL06S051004QT	SL06S051504QT	SL06S052504QT	SL06S050104
4.6	SL06S050346WT	SL06S050546WT	SL06S051046WT	SL06S051546WT	SL06S052546WT	SL06S050104

\* (pack of 5)

### YMC-Pack SIL, 12 nm, 5 $\mu\text{m}$

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	SL12S050302QT	SL12S050502QT	SL12S051002QT	SL12S051502QT	SL12S052502QT	SL12S050102
3.0	SL12S050303QT	SL12S050503QT	SL12S051003QT	SL12S051503QT	SL12S052503QT	SL12S050103
4.0	SL12S050304QT	SL12S050504QT	SL12S051004QT	SL12S051504QT	SL12S052504QT	SL12S050104
4.6	SL12S050346WT	SL12S050546WT	SL12S051046WT	SL12S051546WT	SL12S052546WT	SL12S050104

\* (pack of 5)

### YMC-Pack SIL, 20 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	SL20S050302QT	SL20S050502QT	SL20S051002QT	SL20S051502QT	SL20S052502QT	SL20S050102
3.0	SL20S050303QT	SL20S050503QT	SL20S051003QT	SL20S051503QT	SL20S052503QT	SL20S050103
4.0	SL20S050304QT	SL20S050504QT	SL20S051004QT	SL20S051504QT	SL20S052504QT	SL20S050104
4.6	SL20S050346WT	SL20S050546WT	SL20S051046WT	SL20S051546WT	SL20S052546WT	SL20S050104

\* (pack of 5)

### YMC-Pack SIL, 30 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	SL30S050302QT	SL30S050502QT	SL30S051002QT	SL30S051502QT	SL30S052502QT	SL30S050102
3.0	SL30S050303QT	SL30S050503QT	SL30S051003QT	SL30S051503QT	SL30S052503QT	SL30S050103
4.0	SL30S050304QT	SL30S050504QT	SL30S051004QT	SL30S051504QT	SL30S052504QT	SL30S050104
4.6	SL30S050346WT	SL30S050546WT	SL30S051046WT	SL30S051546WT	SL30S052546WT	SL30S050104

\* (pack of 5)

### YMC-Pack PVA-Sil

- Bonded phase alternative to silica for normal phase applications
- Vinyl alcohol polymerised silica support
- Consistent surface activity, unaffected by water
- Excellent for packed column supercritical fluid chromatography

### YMC-Pack SIL, 12 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	PV12S050302QT	PV12S050502QT	PV12S051002QT	PV12S051502QT	PV12S052502QT	PV12S050102
3.0	PV12S050303QT	PV12S050503QT	PV12S051003QT	PV12S051503QT	PV12S052503QT	PV12S050103
4.0	PV12S050304QT	PV12S050504QT	PV12S051004QT	PV12S051504QT	PV12S052504QT	PV12S050104
4.6	PV12S050346WT	PV12S050546WT	PV12S051046WT	PV12S051546WT	PV12S052546WT	PV12S050104

\* (pack of 5)

### YMC-Pack CN (Cyano)

- Silica gel chemically bound with cyanopropyl groups
- Faster column equilibration than normal silica gel

### YMC-Pack CN, 12 nm, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	CN12S030302QT	CN12S030502QT	CN12S031002QT	CN12S031502QT	CN12S032502QT	CN12S030102
3.0	CN12S030303QT	CN12S030503QT	CN12S031003QT	CN12S031503QT	CN12S032503QT	CN12S030103
4.0	CN12S030304QT	CN12S030504QT	CN12S031004QT	CN12S031504QT	CN12S032504QT	CN12S030104
4.6	CN12S030346WT	CN12S030546WT	CN12S031046WT	CN12S031546WT	CN12S032546WT	CN12S030104

\* (pack of 5)

### YMC-Pack CN, 12 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	CN12S050302QT	CN12S050502QT	CN12S051002QT	CN12S051502QT	CN12S052502QT	CN12S050102
3.0	CN12S050303QT	CN12S050503QT	CN12S051003QT	CN12S051503QT	CN12S052503QT	CN12S050103
4.0	CN12S050304QT	CN12S050504QT	CN12S051004QT	CN12S051504QT	CN12S052504QT	CN12S050104
4.6	CN12S050346WT	CN12S050546WT	CN12S051046WT	CN12S051546WT	CN12S052546WT	CN12S050104

\*(pack of 5)

### YMC-Pack CN, 30 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	CN30S050302QT	CN30S050502QT	CN30S051002QT	CN30S051502QT	CN30S052502QT	CN30S050102
3.0	CN30S050303QT	CN30S050503QT	CN30S051003QT	CN30S051503QT	CN30S052503QT	CN30S050103
4.0	CN30S050304QT	CN30S050504QT	CN30S051004QT	CN30S051504QT	CN30S052504QT	CN30S050104
4.6	CN30S050346WT	CN30S050546WT	CN30S051046WT	CN30S051546WT	CN30S052546WT	CN30S050104

\*(pack of 5)

## YMC-Pack Diol-NP

- Good selectivity without excessive retention
- High product recovery rate
- High prep loading
- Bonded phase reproducibility
- Improved peak shape versus bare
- Gel filtration on a silica based material for aqueous size separations

### YMC-Pack Diol-NP, 6 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	DN06S050302QT	DN06S050502QT	DN06S051002QT	DN06S051502QT	DN06S052502QT	DN06S050102
3.0	DN06S050303QT	DN06S050503QT	DN06S051003QT	DN06S051503QT	DN06S052503QT	DN06S050103
4.0	DN06S050304QT	DN06S050504QT	DN06S051004QT	DN06S051504QT	DN06S052504QT	DN06S050104

\*(pack of 5)

### YMC-Pack Diol-NP, 12 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	DN12S050302QT	DN12S050502QT	DN12S051002QT	DN12S051502QT	DN12S052502QT	DN12S050102
3.0	DN12S050303QT	DN12S050503QT	DN12S051003QT	DN12S051503QT	DN12S052503QT	DN12S050103
4.0	DN12S050304QT	DN12S050504QT	DN12S051004QT	DN12S051504QT	DN12S052504QT	DN12S050104
4.6	DN12S050346WT	DN12S050546WT	DN12S051046WT	DN12S051546WT	DN12S052546WT	DN12S050104

\*(pack of 5)

### YMC-Pack Diol-NP, 20 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	DN20S050302QT	DN20S050502QT	DN20S051002QT	DN20S051502QT	DN20S052502QT	DN20S050102
3.0	DN20S050303QT	DN20S050503QT	DN20S051003QT	DN20S051503QT	DN20S052503QT	DN20S050103
4.0	DN20S050304QT	DN20S050504QT	DN20S051004QT	DN20S051504QT	DN20S052504QT	DN20S050104

\*(pack of 5)

### YMC-Pack Diol-NP, 30 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	DN30S050302QT	DN30S050502QT	DN30S051002QT	DN30S051502QT	DN30S052502QT	DN30S050102
3.0	DN30S050303QT	DN30S050503QT	DN30S051003QT	DN30S051503QT	DN30S052503QT	DN30S050103
4.0	DN30S050304QT	DN30S050504QT	DN30S051004QT	DN30S051504QT	DN30S052504QT	DN30S050104

\* (pack of 5)

### YMC-Pack Polyamine II

- Polymer coated amino phase
  - Exclusively 2° and 3° amino groups
  - Stable towards hydrolysis and oxidation
  - High recovery
  - Excellent life-time
- 
- Saccharides and derivatives
  - Nucleotides
  - Tocopherols
  - For normal or reversed phase separations

### YMC-Pack Polyamine II, 12 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	PB12S050302QT	PB12S050502QT	PB12S051002QT	PB12S051502QT	PB12S052502QT	PB12S050102
3.0	PB12S050303QT	PB12S050503QT	PB12S051003QT	PB12S051503QT	PB12S052503QT	PB12S050103
4.0	PB12S050304QT	PB12S050504QT	PB12S051004QT	PB12S051504QT	PB12S052504QT	PB12S050104
4.6	PB12S050346WT	PB12S050546WT	PB12S051046WT	PB12S051546WT	PB12S052546WT	PB12S050104

\* (pack of 5)

### YMC-Pack NH<sub>2</sub> (Amino)

- Primary amine [-NH<sub>2</sub>] functionality
- Stable, high coverage monomeric bonded chemistry
- For applications in aggressive normal phase mode with aqueous eluents
- For saccharide type compounds, nucleotides and water-soluble vitamins

### YMC-Pack NH<sub>2</sub>, 12 nm, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	NH12S030302QT	NH12S030502QT	NH12S031002QT	NH12S031502QT	NH12S032502QT	NH12S030102
3.0	NH12S030303QT	NH12S030503QT	NH12S031003QT	NH12S031503QT	NH12S032503QT	NH12S030103
4.0	NH12S030304QT	NH12S030504QT	NH12S031004QT	NH12S031504QT	NH12S032504QT	NH12S030104
4.6	NH12S030346WT	NH12S030546WT	NH12S031046WT	NH12S031546WT	NH12S032546WT	NH12S030104

\* (pack of 5)

### YMC-Pack NH<sub>2</sub>, 12 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	NH12S050302QT	NH12S050502QT	NH12S051002QT	NH12S051502QT	NH12S052502QT	NH12S050102
3.0	NH12S050303QT	NH12S050503QT	NH12S051003QT	NH12S051503QT	NH12S052503QT	NH12S050103
4.0	NH12S050304QT	NH12S050504QT	NH12S051004QT	NH12S051504QT	NH12S052504QT	NH12S050104
4.6	NH12S050346WT	NH12S050546WT	NH12S051046WT	NH12S051546WT	NH12S052546WT	NH12S050104

\* (pack of 5)



## YMC-Pack TMS (C1)

- Solid phase with the lowest hydrophobicity among reversed phase packing materials
- Shortest of all alkyl bonded phases
- Intermediate polarity between normal phase silica and other alkyl bonded reversed phases
- Operates in either a normal phase or reversed phase mode

### YMC-Pack TMS, 12 nm, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	TM12S030302QT	TM12S030502QT	TM12S031002QT	TM12S031502QT	TM12S032502QT	TM12S030102
3.0	TM12S030303QT	TM12S030503QT	TM12S031003QT	TM12S031503QT	TM12S032503QT	TM12S030103
4.0	TM12S030304QT	TM12S030504QT	TM12S031004QT	TM12S031504QT	TM12S032504QT	TM12S030104
4.6	TM12S030346WT	TM12S030546WT	TM12S031046WT	TM12S031546WT	TM12S032546WT	TM12S030104

\* (pack of 5)

### YMC-Pack TMS, 12 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	TM12S050302QT	TM12S050502QT	TM12S051002QT	TM12S051502QT	TM12S052502QT	TM12S050102
3.0	TM12S050303QT	TM12S050503QT	TM12S051003QT	TM12S051503QT	TM12S052503QT	TM12S050103
4.0	TM12S050304QT	TM12S050504QT	TM12S051004QT	TM12S051504QT	TM12S052504QT	TM12S050104
4.6	TM12S050346WT	TM12S050546WT	TM12S051046WT	TM12S051546WT	TM12S052546WT	TM12S050104

\* (pack of 5)

### YMC-Pack TMS, 30 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	TM30S050302QT	TM30S050502QT	TM30S051002QT	TM30S051502QT	TM30S052502QT	TM30S050102
3.0	TM30S050303QT	TM30S050503QT	TM30S051003QT	TM30S051503QT	TM30S052503QT	TM30S050103
4.0	TM30S050304QT	TM30S050504QT	TM30S051004QT	TM30S051504QT	TM30S052504QT	TM30S050104
4.6	TM30S050346WT	TM30S050546WT	TM30S051046WT	TM30S051546WT	TM30S052546WT	TM30S050104

\* (pack of 5)

# CHIRAL COLUMNS

## YMC-Pack Chiral NEA (R)(S)

- Normal and reversed phase mode
- Reversal of elution order
- Nonpolar to medium polar compounds
- Available in bulk quantities

### Normal Phase: YMC Chiral NEA(R), 30 nm, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	CR30S050302QT	CR30S050502QT	CR30S051002QT	CR30S051502QT	CR30S052502QT	CR30S050102
3.0	CR30S050303QT	CR30S050503QT	CR30S051003QT	CR30S051503QT	CR30S052503QT	CR30S050103
4.0	CR30S050304QT	CR30S050504QT	CR30S051004QT	CR30S051504QT	CR30S052504QT	CR30S050104
4.6	CR30S050346WT	CR30S050546WT	CR30S051046WT	CR30S051546WT	CR30S052546WT	CR30S050104

\* (pack of 5)

**Normal Phase: YMC Chiral NEA(S), 30 nm, 5  $\mu$ m**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	CS30S050302QT	CS30S050502QT	CS30S051002QT	CS30S051502QT	CS30S052502QT	CS30S050102
3.0	CS30S050303QT	CS30S050503QT	CS30S051003QT	CS30S051503QT	CS30S052503QT	CS30S050103
4.0	CS30S050304QT	CS30S050504QT	CS30S051004QT	CS30S051504QT	CS30S052504QT	CS30S050104
4.6	CS30S050346WT	CS30S050546WT	CS30S051046WT	CS30S051546WT	CS30S052546WT	CS30S050104

\* (pack of 5)

**Reversed Phase: YMC Chiral NEA(R), 30 nm, 5  $\mu$ m**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	NR30S050302QT	NR30S050502QT	NR30S051002QT	NR30S051502QT	NR30S052502QT	NR30S050102
3.0	NR30S050303QT	NR30S050503QT	NR30S051003QT	NR30S051503QT	NR30S052503QT	NR30S050103
4.0	NR30S050304QT	NR30S050504QT	NR30S051004QT	NR30S051504QT	NR30S052504QT	NR30S050104
4.6	NR30S050346WT	NR30S050546WT	NR30S051046WT	NR30S051546WT	NR30S052546WT	NR30S050104

\* (pack of 5)

**Reversed Phase: YMC Chiral NEA(S), 30 nm, 5  $\mu$ m**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	NS30S050302QT	NS30S050502QT	NS30S051002QT	NS30S051502QT	NS30S052502QT	NS30S050102
3.0	NS30S050303QT	NS30S050503QT	NS30S051003QT	NS30S051503QT	NS30S052503QT	NS30S050103
4.0	NS30S050304QT	NS30S050504QT	NS30S051004QT	NS30S051504QT	NS30S052504QT	NS30S050104
4.6	NS30S050346WT	NS30S050546WT	NS30S051046WT	NS30S051546WT	NS30S052546WT	NS30S050104

\* (pack of 5)

**YMC-Chiral CD BR**

- Reversed phase
- Polar pharmaceuticals
- Positional isomers
- Water-soluble compounds

 **$\alpha$ -CD BR: YMC Chiral CD BR, 12 nm, 5  $\mu$ m**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	DA12S050302QT	DA12S050502QT	DA12S051002QT	DA12S051502QT	DA12S052502QT	DA12S050102
3.0	DA12S050303QT	DA12S050503QT	DA12S051003QT	DA12S051503QT	DA12S052503QT	DA12S050103
4.0	DA12S050304QT	DA12S050504QT	DA12S051004QT	DA12S051504QT	DA12S052504QT	DA12S050104
4.6	DA12S050346WT	DA12S050546WT	DA12S051046WT	DA12S051546WT	DA12S052546WT	DA12S050104

\* (pack of 5)

 **$\beta$ -CD BR: YMC Chiral CD BR, 12 nm, 5  $\mu$ m**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	DB12S050302QT	DB12S050502QT	DB12S051002QT	DB12S051502QT	DB12S052502QT	DB12S050102
3.0	DB12S050303QT	DB12S050503QT	DB12S051003QT	DB12S051503QT	DB12S052503QT	DB12S050103
4.0	DB12S050304QT	DB12S050504QT	DB12S051004QT	DB12S051504QT	DB12S052504QT	DB12S050104
4.6	DB12S050346WT	DB12S050546WT	DB12S051046WT	DB12S051546WT	DB12S052546WT	DB12S050104

\* (pack of 5)

**γ-CD BR: YMC Chiral CD BR, 12 nm, 5 μm**

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	DG12S050302QT	DG12S050502QT	DG12S051002QT	DG12S051502QT	DG12S052502QT	DG12S050102
3.0	DG12S050303QT	DG12S050503QT	DG12S051003QT	DG12S051503QT	DG12S052503QT	DG12S050103
4.0	DG12S050304QT	DG12S050504QT	DG12S051004QT	DG12S051504QT	DG12S052504QT	DG12S050104
4.6	DG12S050346WT	DG12S050546WT	DG12S051046WT	DG12S051546WT	DG12S052546WT	DG12S050104

\* (pack of 5)

**YMC-Sumichiral OA**

- Covalently bonded
- High stability
- Normal and reversed phase mode
- 17 different CSPs
- Reversal of elution order
- Reversed phase
- Polar pharmaceuticals
- Positional isomers
- Water-soluble compounds

Phase	Chiral components	Guard Column 10 x 4.0	100Analytical 250 x 4.6	Semi-prep 250 x 20
OA-2000 OA-2000S	(R)-phenylglycine (S)-phenylglycine	SC20XCS050104	SC20XCS052546	SC20XCS052520
OA-2500 OA-2500S	(R)-1-naphthylglycine (S)-1-naphthylglycine	SC25XCS050104	SC25XCS052546	SC25XCS052520
OA-3100 OA-3100R	(S)-valine (R)-valine	SC31XCS050104	SC31XCS052546	SC31XCS052520
OA-3200 OA-3200R	(S)-tert-leucine (R)-tert-leucine	SC32XCS050104	SC32XCS052546	SC32XCS052520
OA-3300 OA-3300S	(R)-phenylcyclycine (S)-phenylcyclycine	SC33XCS050104	SC33XCS052546	SC33XCS052520
OA-4000 OA-4000R	(S)-valine (S)-1-(α-naphthyl)ethylamine (R)-valine (R)-1-(α-naphthyl)ethylamine	SC40XCS050104	SC40XCS052546	SC40XCS052520
OA-4100 OA-4100R	(S)-valine (R)-1-(α-naphthyl)ethylamine (R)-valine (S)-1-(α-naphthyl)ethylamine	SC41XCS050104	SC41XCS052546	SC41XCS052520
OA-4400 OA-4400R	(S)-proline (S)-1-(α-naphthyl)ethylamine (R)-proline (R)-1-(α-naphthyl)ethylamine	SC44XCS050104	SC44XCS052546	SC44XCS052520
OA-4500 OA-4500R	(S)-proline (R)-1-(α-naphthyl)ethylamine (R)-proline (S)-1-(α-naphthyl)ethylamine	SC45XCS050104	SC45XCS052546	SC45XCS052520
OA-4600 OA-4600R	(S)-tert-leucine (S)-1-(α-naphthyl)ethylamine (R)-tert-leucine (R)-1-(α-naphthyl)ethylamine	SC46XCS050104	SC46XCS052546	SC46XCS052520
OA-4700 OA-4700R	(S)-tert-leucine (R)-1-(α-naphthyl)ethylamine (R)-tert-leucine (S)-1-(α-naphthyl)ethylamine	SC47XCS050104	SC47XCS052546	SC47XCS052520
OA-4800 OA-4900	(S)-indoline-2-carboxylic acid (S)-1-(α-naphthyl)ethylamine (S)-indoline-2-carboxylic acid (R)-1-(α-naphthyl)ethylamine	SC48XCS050104 SC49XCS050104	SC48XCS052546 SC49XCS052546	SC48XCS052520 SC49XCS052520
OA-5000 OA-5000L	(D)-penicillamine (L)-penicillamine	SC50XCS050104	SC50XCS052546	SC50XCS052520
OA-6000 OA-6000R	(L)-tartaric acid (R)-1-(α-naphthyl)ethylamine (D)-tartaric acid (S)-1-(α-naphthyl)ethylamine	SC60XCS050104	SC60XCS052546	SC60XCS052520
OA-6100 OA-6100R	(L)-tartaric acid (S)-valine (S)-1-(α-naphthyl)ethylamine (D)-tartaric acid (R)-valine (R)-1-(α-naphthyl)ethylamine	SC61XCS050104	SC61XCS052546	SC61XCS052520
OA-7000	β-cyclodextrin with novel spacer	SC70XCS050104	SC70XCS052546	SC70XCS052520
OA-8000	chiral pseudo 18-crown-6 ether	SC80XCS050104	SC80XCS052546	SC80XCS052520

# SPECIALITY COLUMNS

**YMC30**

- C30 chains
- Very lipophilic
- Exceptional selectivity pattern
- Isomer recognition
- Polar carotenes
- Polar and nonpolar xanthophylls
- Steroids
- Retinols
- Fat-soluble vitamins
- LC-MS applications

### YMC30, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	CT99S030302QT	CT99S030502QT	CT99S031002QT	CT99S031502QT	CT99S032502QT	CT99S030102
3.0	CT99S030303QT	CT99S030503QT	CT99S031003QT	CT99S031503QT	CT99S032503QT	CT99S030103
4.0	CT99S030304QT	CT99S030504QT	CT99S031004QT	CT99S031504QT	CT99S032504QT	CT99S030104
4.6	CT99S030346QT	CT99S030546QT	CT99S031046QT	CT99S031546QT	CT99S032546QT	CT99S030104

\* (pack of 5)

### YMC30, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	CT99S050302QT	CT99S050502QT	CT99S051002QT	CT99S051502QT	CT99S052502QT	CT99S050102
3.0	CT99S050303QT	CT99S050503QT	CT99S051003QT	CT99S051503QT	CT99S052503QT	CT99S050103
4.0	CT99S050304QT	CT99S050504QT	CT99S051004QT	CT99S051504QT	CT99S052504QT	CT99S050104
4.6	CT99S050346QT	CT99S050546QT	CT99S051046QT	CT99S051546QT	CT99S052546QT	CT99S050104

\* (pack of 5)

### YMC PAH

- Specifically designed for the analysis of Polynuclear Aromatic Hydrocarbons
- Provide the resolution necessary for a fast identification and quantification for PAHs

### YMC PAH, 3 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	YP99S030302QT	YP99S030502QT	YP99S031002QT	YP99S031502QT	YP99S032502QT	YP99S030102
3.0	YP99S030303QT	YP99S030503QT	YP99S031003QT	YP99S031503QT	YP99S032503QT	YP99S030103
4.0	YP99S030304QT	YP99S030504QT	YP99S031004QT	YP99S031504QT	YP99S032504QT	YP99S030104
4.6	YP99S030346WT	YP99S030546WT	YP99S031046WT	YP99S031546WT	YP99S032546WT	YP99S030104

\* (pack of 5)

### YMC PAH, 5 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	YP99S050302QT	YP99S050502QT	YP99S051002QT	YP99S051502QT	YP99S052502QT	YP99S050102
3.0	YP99S050303QT	YP99S050503QT	YP99S051003QT	YP99S051503QT	YP99S052503QT	YP99S050103
4.0	YP99S050304QT	YP99S050504QT	YP99S051004QT	YP99S051504QT	YP99S052504QT	YP99S050104
4.6	YP99S050346WT	YP99S050546WT	YP99S051046WT	YP99S051546WT	YP99S052546WT	YP99S050104

\* (pack of 5)



## J'sphere ODS

- High quality reversed phase columns
- Polarity range created solely by C18 bonding density
- Additional selectivity through H-bonding

### J'sphere ODS-H80, 8 nm, 4 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	JH08S040302QT	JH08S040502QT	JH08S041002QT	JH08S041502QT	JH08S042502QT	JH08S040102
3.0	JH08S040303QT	JH08S040503QT	JH08S041003QT	JH08S041503QT	JH08S042503QT	JH08S040103
4.0	JH08S040304QT	JH08S040504QT	JH08S041004QT	JH08S041504QT	JH08S042504QT	JH08S040104
4.6	JH08S040346WT	JH08S040546WT	JH08S041046WT	JH08S041546WT	JH08S042546WT	JH08S040104

\* (pack of 5)

### J'sphere ODS-M80, 8 nm, 4 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	JM08S040302QT	JM08S040502QT	JM08S041002QT	JM08S041502QT	JM08S042502QT	JM08S040102
3.0	JM08S040303QT	JM08S040503QT	JM08S041003QT	JM08S041503QT	JM08S042503QT	JM08S040103
4.0	JM08S040304QT	JM08S040504QT	JM08S041004QT	JM08S041504QT	JM08S042504QT	JM08S040104
4.6	JM08S040346WT	JM08S040546WT	JM08S041046WT	JM08S041546WT	JM08S042546WT	JM08S040104

\* (pack of 5)

### J'sphere ODS-L80, 8 nm, 4 µm

Column i.d. (mm)	Column length (mm)					Guard cartridges with 10 mm length*
	33	50	100	150	250	
2.1	JL08S040302QT	JL08S040502QT	JL08S041002QT	JL08S041502QT	JL08S042502QT	JL08S040102
3.0	JL08S040303QT	JL08S040503QT	JL08S041003QT	JL08S041503QT	JL08S042503QT	JL08S040103
4.0	JL08S040304QT	JL08S040504QT	JL08S041004QT	JL08S041504QT	JL08S042504QT	JL08S040104
4.6	JL08S040346WT	JL08S040546WT	JL08S041046WT	JL08S041546WT	JL08S042546WT	JL08S040104

\* (pack of 5)



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