



# HICHROM

Chromatography Columns and Supplies

## LC COLUMNS Ultrasphere

Catalogue 9

### Hichrom Limited

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- Acquired by Hichrom from Beckman Coulter
- High reproducibility
- Optimal surface coverage for long column lifetime
- Narrow particle size distribution for high efficiency and improved resolution
- Widely referenced silica



Hichrom acquired the Ultrasphere® HPLC column range from Beckman Coulter, and manufacture the complete range of Ultrasphere columns and media to the same exacting manufacturing protocols and to identical specifications previously used by Beckman Coulter. Part numbers also remain unaffected by this acquisition.

### Ultrasphere Phases

Ultrasphere Phase	Particle Size (µm)	Pore Size (Å)	Endcapped
ODS (C18)	3,5	80	Yes
Octyl (C8)	3,5	80	Yes
Cyano (CN)	3,5	80	No
Silica (Si)	3,5	80	n/a
Ion Pair (IP)	5	80	Yes

Ultrasphere columns are available in five phases with a 5µm particle size – ODS (C18), Octyl (C8), Cyano (CN), Ion Pair (IP) and unbonded silica (Si). Additionally, ODS, Octyl, Cyano and unbonded silica chemistries are available with a 3µm particle size.

Ultrasphere columns remain widely referenced within both industry and academia and are recognised to provide excellent chromatographic performance.

Columns are available in a wide range of dimensions, including microbore (2.0mm i.d.), analytical (4.6mm i.d.) and semi-preparative (10mm i.d.) options. Please contact Hichrom to request availability of any column dimension not listed.

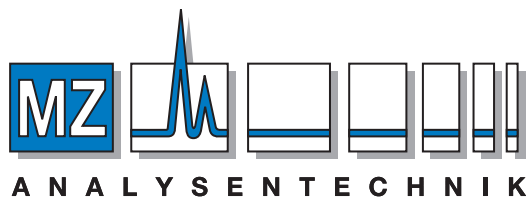


### Ultrasphere-XL High Speed Cartridge Columns

In this cartridge design, the guard connects directly to the cartridge column with an integral holder. This integral design (see Figure 1) minimises the dead volume between guard and cartridge column, resulting in high efficiency columns. Please note that the cartridge and guard hardware detailed in Figure 1 are not compatible with the previous hardware design.



Figure 1. Ultrasphere-XL cartridge hardware



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## Ordering Information – Ultrasphere®

## 5µm Analytical Columns

Catalogue No.	Description
235329	Ultrasphere 5µm ODS column, 250 x 4.6mm
235330	Ultrasphere 5µm ODS column, 150 x 4.6mm
243533	Ultrasphere 5µm ODS pre-column, 45 x 4.6mm
235332	Ultrasphere 5µm Octyl column, 250 x 4.6mm
235333	Ultrasphere 5µm Octyl column, 150 x 4.6mm
243532	Ultrasphere 5µm Octyl pre-column, 45 x 4.6mm
244071	Ultrasphere 5µm Cyano column, 250 x 4.6mm
244070	Ultrasphere 5µm Cyano column, 150 x 4.6mm
244072	Ultrasphere 5µm Cyano pre-column, 45 x 4.6mm
235341	Ultrasphere 5µm Si column, 250 x 4.6mm
235342	Ultrasphere 5µm Si column, 150 x 4.6mm
244011	Ultrasphere 5µm Si pre-column, 45 x 4.6mm
235335	Ultrasphere 5µm IP column, 250 x 4.6mm
235334	Ultrasphere 5µm IP column, 150 x 4.6mm
243534	Ultrasphere 5µm IP pre-column, 45 x 4.6mm
240002	Ultrasphere 5µm ODS-DABS column, 250 x 4.6mm

## 5µm Micro Columns

Catalogue No.	Description
244434	Ultrasphere 5µm ODS column, 250 x 2.0mm
237390	Ultrasphere 5µm ODS column, 150 x 2.0mm
237396	Ultrasphere 5µm Octyl column, 250 x 2.0mm
237395	Ultrasphere 5µm Octyl column, 150 x 2.0mm
237394	Ultrasphere 5µm Cyano column, 250 x 2.0mm
237393	Ultrasphere 5µm Cyano column, 150 x 2.0mm
237392	Ultrasphere 5µm Si column, 250 x 2.0mm
237391	Ultrasphere 5µm Si column, 150 x 2.0mm

## 5µm Semi-Prep Columns

Catalogue No.	Description
235328	Ultrasphere 5µm ODS column, 250 x 10mm
244046	Ultrasphere 5µm ODS column, 150 x 10mm
235331	Ultrasphere 5µm Octyl column, 250 x 10mm
244048	Ultrasphere 5µm Octyl column, 150 x 10mm
244073	Ultrasphere 5µm Cyano column, 250 x 10mm
235340	Ultrasphere 5µm Si column, 250 x 10mm

## 3µm Analytical Columns

Catalogue No.	Description
244254	Ultrasphere 3µm ODS High Speed Column, 75 x 4.6mm
244228	Ultrasphere 3µm Octyl High Speed Column, 75 x 4.6mm
237573	Ultrasphere 3µm Cyano High Speed Column, 75 x 4.6mm
237574	Ultrasphere 3µm Si High Speed Column, 75 x 4.6mm

## 3µm XL Cartridge Columns

Catalogue No.	Description
238370	Ultrasphere-XL 3µm ODS Starter Set; contains 1 x Cartridge Column (70 x 4.6mm), 2 x guard cartridges, 1 x holder
237500	Ultrasphere-XL 3µm ODS Cartridge Column, 70 x 4.6mm
237520	Ultrasphere-XL 3µm ODS Guard Cartridge (5mm length, 2/pk)
238371	Ultrasphere-XL 3µm Octyl Starter Set; contains 1 x Cartridge Column (70 x 4.6mm), 2 x guard cartridges, 1 x holder
237501	Ultrasphere-XL 3µm Octyl Cartridge Column, 70 x 4.6mm
237521	Ultrasphere-XL 3µm Octyl Guard Cartridge (5mm length, 2/pk)
237060	Ultrasphere-XL Column Holder Assembly

## Accessories

Catalogue No.	Description
250001	Column – Pre-column Connector Kit (contains pre-cut 1/16" SS tubing and 2 PEEK fingertight fittings)
250002	PEEK Fingertight Fitting (10/pk) – suitable for connection of all Ultrasphere columns and pre-columns to all 1/16" tubing types, slip free to >6000psi