

# ULTRACHROME™

By **Pharmaffiliates®**

PHARMAFFILIATES is evolving in creating a remarkable experience of chromatography for you. With advancements and perpetual growth in research, pharmaceutical, Biotechnology, petrochemical, environmental, food & flavour industry, Pharmaffiliates is presenting an all-inclusive portfolio of HPLC, UPLC and GC columns to give you high accuracy and better resolution with ease of use in laboratory and maximize your productivity.

## HPLC Column

SPEC EXCIL™

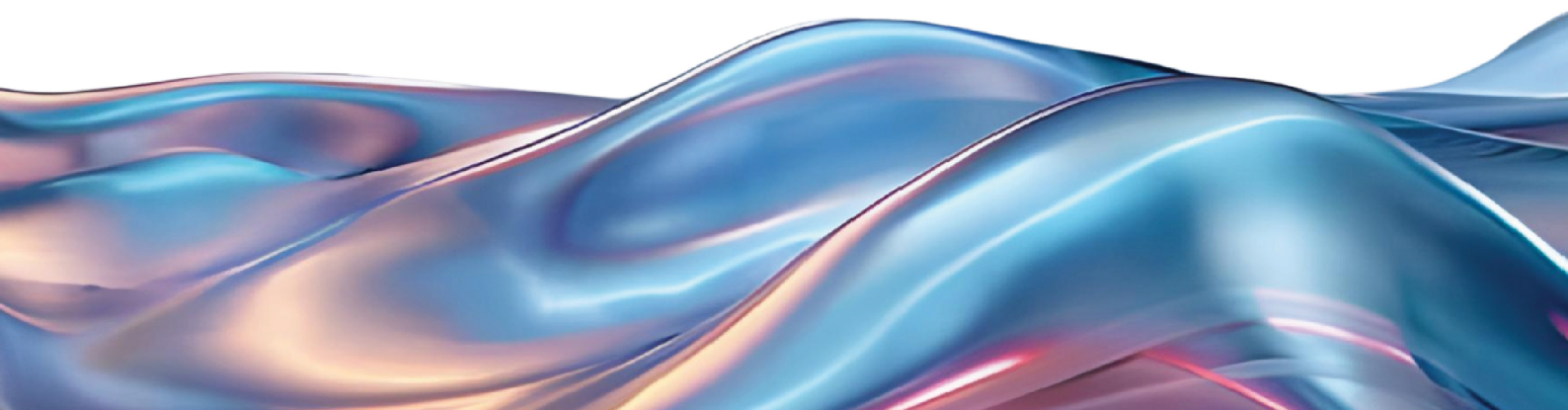
EXUBERSIL™

MEGPURA LC™

AQUABUFF™

NEUCHROME™

SPEC EXTRACIL™

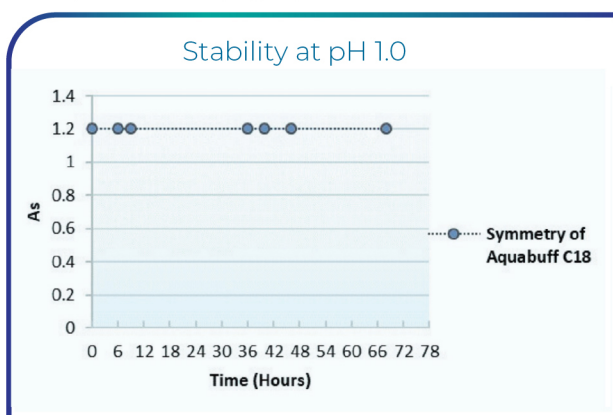


## AQUABUFF™ UHPLC

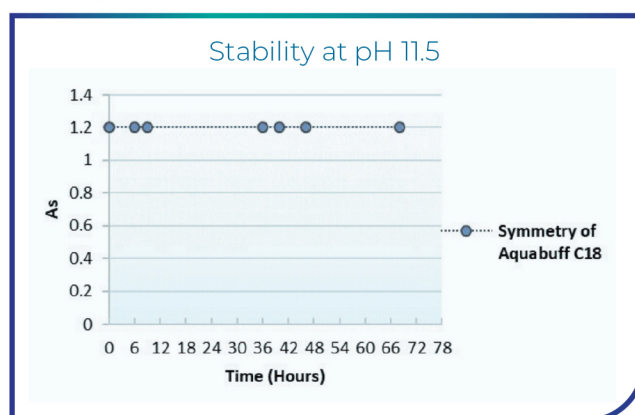
Aquabuff™ C 18 is a 100% REVERSE PHASE COLUMN that has an excellent retention of polar compounds and allows working with 100 % aqueous mobile phases without any limitations. Having specifically improved endcapping process, which maximises the strength and lifetime of the columns which is guaranteed.

The columns with Aquabuff™ C 18 fillers allow you to work with eluents ranging from pH 1 to pH 12

The pH stability graphs shows the efficiency of the process.



With an eluent as acidic as pH 1, the column stabilizes in a short period, hence it is even possible to work under these extreme conditions



Eluting the Aquabuff™ C 18 column for 78 hours at pH 11.5 showed no substantial deterioration in terms of efficiency and peak symmetry for diphenhydramine.

## NEUchrome™

Pharmaffiliates presents the finest reverse phase HPLC columns for identification of peptides and protein compounds.

### NEUchrome™ C 18 Peptide HPLC Columns

#### Specifications

- With **ultra-high purity and absolutely spherical silica gel**, these columns provide an **exponentially high resolution and excellent peak shape**
- Fully end-capped silica
- Stable under **basic and extreme acidic conditions**
- Porous Size: 120 Å narrow particle size distribution
- Surface Area **300 m<sup>2</sup> / gr.**
- % of Carbon: **19 %**
- Available as C 18 columns:
  - Microbore Columns : **0.21, 0.30 cm ID**
  - Analytical Columns : **0.40 and 0.46 cm ID**
  - Semi-Preparative : **0.78-1.0 cm ID**
  - Preparative Columns : **2.1 cm ID**

### NEUchrome™ C 18 Protein HPLC Columns

#### Specifications

- With **ultra-high purity and absolute spherical silica gel**, these columns provide **high resolution and excellent peak shape**
- Fully end-capped silica
- Stable, **featuring prolonged acidic and basic conditions**
- Porous Size: **300 Å narrow** particle size distribution
- Surface Area **100 m<sup>2</sup> / gr.**
- % of Carbon: **7 %**
- Packed with **5 µm** sized silica particles
- Available as C 4, C 8, and C 18 columns:
  - Microbore Columns: **0.21, 0.30 ID**
  - Analytical Columns: **0.40 and 0.46 cm ID**
  - Semi-Prep: **0.70-1.0 ID**



## MEGPURA™ LC

An advanced technology with supreme Ultrapure Silica packing Liquid Chromatographic column.

### Specifications

- Advanced technology with Ultrapure Silica
- Optimizes your analysis cost
- The material used for this column development is an ultrapure and metal free silica packing.
- Pore size: 120 Å
- Particle size: 3 & 5 µm.
- Fully “Endcapped” free silanol silica.
- Extensively use with pH range (2-11).
- Megpura™ LC has been designed, to get the highest reproducibility and quality

## EXUBERSIL™

Exubersil columns are designed and manufactured to be a suitable alternate to Hypersil. As per its characteristics and its silica built, it is an excellent alternate to selective Hypersil range. As mentioned:

### Exubersil ODS

As per its characteristics of pore size, surface area, percentage of covering (%C), and its silica built. Its chromatographic behaviour is an exact replicate to this popular packing (e.g. Hypersil ODS).

Available with 5µ:

- Analytical Column: 4.6 mm, 4 mm
- Microbore Columns: 2.1 mm, 3 mm
- Semi-preparative Columns: 7.8 mm, 10mm and 21.2mm.

Available with 3 µ:

- Ultrarapid Columns: 4.6 mm
- Analytical Columns: 4 mm
- Microbore Columns: 2.1 mm, 3 mm

### Exubersil Basic

As mentioned in the Exubersil ODS, Exubersil Basic also functions with total fidelity to the chromatographic behaviour of the columns Hypersil BDS C 18.

Available with 5µ:

- Analytical Column: 4.6 mm, 4 mm
- Microbore Columns: 2.1 mm, 3 mm
- Semi-preparative Columns: 7.8 mm, 10mm, 21.2 mm.
- Cartridge System: 4mm

Available with 3µ:

- Ultrarapid Columns: 4 mm
- Analytical Columns: 4.6 mm
- Microbore Columns: 2.1 mm, 3 mm



## SPEC EXCIL™

SPEC EXCIL™ is a range that employs the most progressive procedures of synthesis and chemical functionalization, bring about a column packing that completely surpass other silica-based packing in the market.

### Specifications

- With Ultra-pure silica and extremely low content of metals
- Maximum pH range (between 1.5 and 11.0) with 3, 5 and 10 µm particles
- Easily scaled-up, from microbore to preparative HPLC

	ODS-A	ODS-B	C8	C4	C1	CN	Ph	NH <sub>2</sub>	SI
Size of pore in Å units	120 Å	120 Å	120 Å	120 Å	120 Å	120 Å	120 Å	120 Å	120 Å
Size of Particle	3, 4, 5 & 10 µm	3, 4, 5 & 10 µm	3, 5 & 10 µm	3, 5 & 10 µm	3, 5 & 10 µm	3, 5 & 10 µm	3, 5 & 10 µm	3, 5 & 10 µm	3, 5 & 10 µm
Volume of pores in ml/g	1.0 ml/g	1.0 ml/g	1.0 ml/g	1.0 ml/g	1.0 ml/g	1.0 ml/g	1.0 ml/g	1.0 ml/g	1.0 ml/g
Surface area m <sup>2</sup> /g unit	300 m <sup>2</sup> /g	300 m <sup>2</sup> /g	300 m <sup>2</sup> /g	300 m <sup>2</sup> /g	300 m <sup>2</sup> /g	300 m <sup>2</sup> /g	300 m <sup>2</sup> /g	300 m <sup>2</sup> /g	300 m <sup>2</sup> /g
Purity of silica	Ultrapure	Ultrapure	Ultrapure	Ultrapure	Ultrapure	Ultrapure	Ultrapure	Ultrapure	Ultrapure
%C	17%	15%	10%	8%	5%	7%	9%	4%	-
Metallic impurities (Al, Fe, Ti, Zr)	Less than 10ppm each	Less than 10ppm each	Less than 10ppm each	Less than 10ppm each	Less than 10ppm each	Less than 10ppm each	Less than 10ppm each	Less than 10ppm each	Less than 10ppm each
USP	L1	L1	L7	L26	L13	L10	L11	L8	L11



## SPEC EXTRACIL™

SPEC EXTRACIL™ is a range of Chromatographic Column packing which has been specifically developed to replace one of the most popular packing on the market, an alternate to Spherisorb.

### Specifications

	ODS-1	ODS-2	C8	C6	C1	CN	Ph	NH <sub>2</sub>	SAX	SCX
Size of pore in Å units	80 Å	80 Å	80 Å	80 Å	80 Å	80 Å	80 Å	80 Å	80 Å	80 Å
Size of Particle in µm units	3, 5 & 10 µm	3, 5 & 10 µm	3, 5 & 10 µm	3, 5 & 10 µm	3, 5 & 10 µm	3, 5 & 10 µm	3, 5 & 10 µm	3, 5 & 10 µm	3, 5 & 10 µm	3, 5 & 10 µm
Surface area in m <sup>2</sup> /g	220 m <sup>2</sup> /g	220 m <sup>2</sup> /g	220 m <sup>2</sup> /g	220 m <sup>2</sup> /g	220 m <sup>2</sup> /g	220 m <sup>2</sup> /g	220 m <sup>2</sup> /g	220 m <sup>2</sup> /g	220 m <sup>2</sup> /g	220 m <sup>2</sup> /g
Carbon (%)	7%	12%	6%	6%	4%	3.5%	3.0%	2%	-	-