



# Precise Chromatography<sup>TM</sup>

Dealer's in Laboratory equipments and consumables.

**EVERYTHING IN CHROMATOGRAPHY**



- HPLC & GC Columns

- HPLC & GC Consumables

- D2 & UV Lamps

- Weights

- Syringe Filters

- Dissolution Consumables





# Precise Chromatography<sup>TM</sup>

Dear Sir/Madam,

Precise Chromatography is one of the recognized distributor in pharmaceutical field dealing in all types of laboratory equipment & consumables. Since inception we have always developed an innovative products for the betterment of Our esteemed clients.

Our Dynamic director Mr. Amit Varma who is known in the market for more than 16 years has always strived continuously to develop innovative technological ideas for products that make a difference to our customers. The branded Equipments and consumables which we deliver are always appreciated in our industry for better quality, better coverage, reliability and better service.

Right from the start we have always tried to be committed in term of product designs, and are tested according to our stringent Quality Management Process ensuring reliability and good performance of your instruments Thanking you for your trust and support throughout this period and assuring you best service for your support in the long run.

Rely on us, We are your partners.

**VICI Jour<sup>®</sup>**

VICI AG International (Switzerland)

 **HÄFNER**  
THE PERFECT WEIGHT

 **Agela Technologies**

  
**MACHEREY-NAGEL**

 **高吉斯特**  
GORJEST TECHNOLOGY

**Hellma<sup>®</sup> Analytics**  
High Precision in Spectro-Optics

  
**Pharmaceutical  
Reference standards**

**SETonic**



## HPLC CONSUMABLES



HPLC Column End Plugs



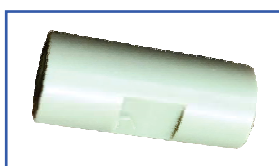
PEEK FINGER TIGHT FITTINGS



Peek Tee



Solvent Inlet Filter



ZERO DEAD VOLUME UNION PEEK



ZERO DEAD VOLUME UNION SS



1.5 ml Screw Top Clear Vial for Agilent HPLC



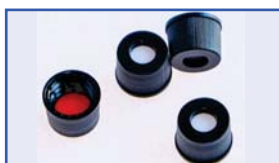
Snap Top Clear Glass Vial 2 ml



Snap Cap with Septa



Blue Screw Cap with Septa



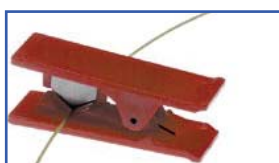
Black Screw Cap with Septa



Snap Top Amber Glass Vial 2 ml



Peek Tubing Cutter



Teflon Tubing Cutter



SS Tubing Cutter



## HPLC CONSUMABLES



Pre-Column Filter High Pressure



2ml Vial Rack



Last Drop Mobile Phase Filter



Mobile Phase Filter Low Pressures



Black Screw Cap with Septa



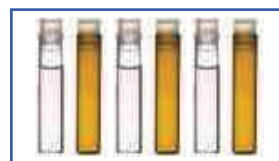
Storage Vials 20ml



40ml Clear & Amber TOC Vials



20ml Clear & Amber TOC Vials



1.1 ml Shell Vial with Snap Plug



High recovery vial



Vici black flat ferrules



suction filter for waters



suction filter for shimadzu



suction filter for agilent



Ptfе Frits For Agilent





## GC CONSUMABLES



20 mm Magnetic Crimp Cap  
Blue/Silver With PTFE/Silicone Septa



18mm Magnetic Cap & Septa



20mm PTFE/Silicone  
Septa With Cap



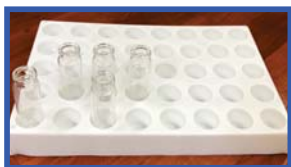
11mm Aluminium Crimp Cap  
With Septa



20ml Screw Top Clear Glass Vial



20MM Open Top Bi-Metallic Crimp  
Cap (8mm hole) Red & Silver with  
20mm Natural /PTFE Silicone  
Septa 3mm Thick



Vial Rack



Advanced ergonomic crimpers  
for 8 mm, 11 mm and 20 mm crimp caps



Manual crimpers  
(standard version)



Battery-powered electronic crimping tools for  
11 mm and 20 mm aluminium crimp caps



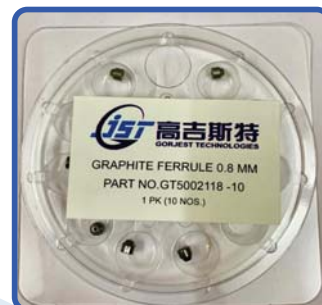
20ml Crimp Top Clear Glass Vial



Graphite Ferrule 1.0 Mm  
1 Pk (10 Nos.)



Graphite Ferrule 0.5 Mm  
1 Pk (10 Nos.)



Graphite Ferrule 0.8 Mm  
1 Pk (10 Nos.)



## DISSOLUTION CONSUMABLES



40 Mesh Basket



10 Mesh Basket



Sinker 18mm L X 6mm W



20 Mesh Basket



Sinker 18mm L X 6mm W



Japanese Pharmacopeia  
Basket Sinkers



Spring Style Capsule Sinkers,  
316 SS, 15.5mm L x 5mm W



Spring Style Capsule Sinkers,  
316 SS, 18mm L x 6mm W



Spring Style Capsule Sinkers,  
316 SS, 19.3mm L x 7mm W



Spring Style Capsule Sinkers,  
316 SS, 23mm L x 8mm W



12 Position Basket Holder



3 Prong Plastic Capsule Sinkers,  
Plastic w/Magnetic Legs



Cannula



Cannula



Paddles



Cannula Filter



## DISSOLUTION CONSUMABLES



1000ml Clear Glass Vessel



1000ml Amber Glass



6 Position Basket Holder



8 Position Basket Holder

## UV CONSUMABLES

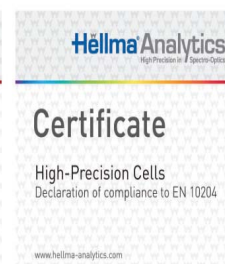
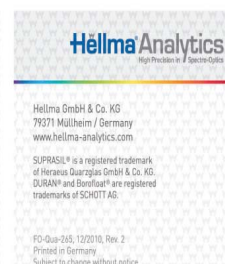
### Cuvettes available in following sizes

- 1mm Path Length
- 2mm Path Length
- 5 mm Path Length
- 10mm Path Length
- 20mm Path Length
- 40mm Path Length
- 50mm Path Length
- 100mm Path Length



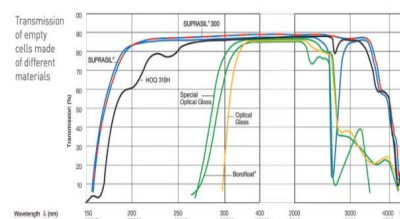
Hellma GmbH & Co. KG  
Klosterrunsstraße 5  
79379 Müllheim  
Germany

**Hellma<sup>®</sup> Analytics**  
High Precision in Spectro-Optics



These cells were manufactured in Germany under EN ISO 9001:2000 / EN ISO 14001:2004 certified environment and meet highest optical standards. Test equipment is calibrated regularly using standards certified by PTB (Physikalisch Technische Bundesanstalt) and National Institute of Standards and Technology.

- The homogeneity of the raw material has been determined and is within specifications
- The dimensional and angle tolerances of the component parts have been tested and are within specifications
- The quality of the optical surfaces has been checked and is within specifications
- The transmission of the cells is within specifications





## VICI Jour<sup>®</sup>

VICI AG International (Switzerland)

### Last Drop mobile phase filters

- No loss of mobile phase
- Biocompatible PTFE frits or stainless steel frits
- Three porosity options



The Last Drop mobile phase filter allows more analyses per batch of mobile phase and helps reduce hazardous waste. The flat filter element sits parallel to the bottom of the reservoir, allowing the Last Drop to filter all but the last 2% of the mobile phase from the reservoir without drawing air into the system. Compare this with conventional cylindrical filters that can begin to draw air into the system when nearly 10% of the solvent remains in the reservoir.

Ideal for helium sparging  
Three porosities  
Fitting and pipe connectors

Mobile phase filters protect your HPLC system from small particles in the mobile phase. These filters are made from 316 stainless and PEEK or PTFE, and are suitable for use with most solvents.



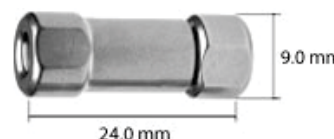
Helium spargers offer an inexpensive way to prepare and maintain mobile phases free of dissolved gases. Connect these spargers to a regulated supply of helium gas (0-400 ml/min) to remove dissolved gases from the mobile phase. Spargers are made from 10 micron porosity stainless steel.

UHPLC (up to 1000 bar / 14,500 psi)  
Minimized hold-up volume  
Two bores for analytical and semi-prep flow rates  
Three porosity options

The stainless steel in-line filter has virtually no hold-up volume and can be used in various applications without significant band broadening or loss of efficiency. Stainless in-line filter

The 0.25 mm bore versions are intended for analytical use between autosampler/injection valve and column. The 0.75 mm bore versions are suitable for higher flow rates in semi-prep systems or for solvent supply from pump to autosampler.

With minimal dead volume and available frit porosities of 0.5, 2 or 5  $\mu\text{m}$ , these in-line filters are the ideal column protectors.







## PEEK ONE-PIECE FINGERTIGHT FITTING

- SPECS**
- For 1/16" OD tubing
- Material PEEK
- 10-32 threads
- Tolerance: ±0.05 mm (.002")
- Fingertight up to 350 bar (5000 psi)
- Excellent chemical and mechanical properties
- One-piece-no ferrule required
- Biocompatible

Our PEEK fingertight fittings are available in six colors for easy identification of tubing lines. They are rated to 350 bar (psi) and can be used in virtual any type of 10-32 thread HPLC fitting detail on the market



Easy connection of transfer/solvent lines

Low dead volume

Completely inert and biocompatible

The 100% PEEK flowpath makes VICI Jour PEEK tees and crosses usable with most common organic and inorganic HPLC solvents without risking corrosion, metal contamination, or protein degradation that might occur with stainless steel.

Small diameter through-holes are used to ensure low dead volume connections. These unions have the standardized Valco fitting details with smooth transition of the taper into the threaded part. Connections to these PEEK tees and crosses can be made with any 10-32 fitting that uses polymeric ferrules.

PEEK tees and crosses are available in body-only versions as well as complete with our PEEK one-piece fingertight fittings ready to connect to any 1/16" OD tubing.

Description		Bore (mm)	Qty/pkg	Product No.
1/16" tee	With fittings	0.25	1	JR-1030
		0.50	1	JR-1032
		0.75	1	JR-1033
	Body only	0.25	1	JR-2030
		0.50	1	JR-2032
		0.75	1	JR-2033
1/16" cross	With fittings	0.25	1	JR-1040
		0.50	1	JR-1042
		0.75	1	JR-1043
	Body only	0.25	1	JR-2040
		0.50	1	JR-2042
		0.75	1	JR-2043
Replacement 1/16" 10-32 one-piece fingertight black PEEK fittings			5	JR-55021-5





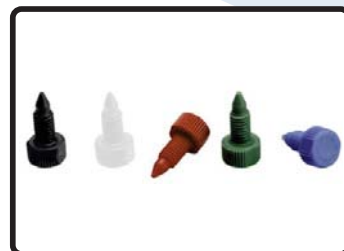
## VICI Jour<sup>®</sup>

VICI AG International (Switzerland)

### COLUMN END PLUGS

- Seal analytical columns
  - One size fits all
  - Fingertight, with wrench flats as well
- Fingertight column end plugs fit all columns with 10-32 threads.

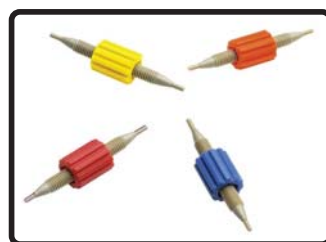
Easy handling is guaranteed by an additional 5/16" wrench flat, which allows the plug to be loosened by a wrench if it gets stuck. The long design and threading down to the ferrule ensure safe closing of valuable columns.



### ONE PIECE FINGERTIGHT COLUMN COUPLERS

- Self-adjusting - zero dead volume for all fitting types
- Four bore sizes
- Biocompatible

A unique feature of this column coupler is that it adapts automatically to fit all pilot lengths - Valco, Waters, Upchurch, Rheodyne, etc. Since the tubing bottoms out in any fitting detail, added void volume is minimal.



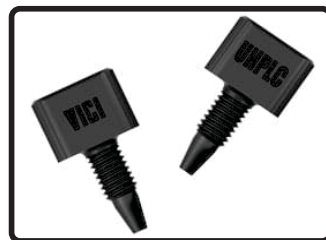
### PEEK ONE-PIECE FINGERTIGHT UHPLC FITTINGS

- Fingertight up to 500 bar (7250 psi)
- Excellent chemical and mechanical properties
- One-piece - no ferrule required
- Biocompatible

For any 10-32 thread fitting on the market

Our PEEK-HT fingertight fittings are rated to 500 bar (7250 psi) as fingertights.

Pressures up to 1000 bars (14,500 psi) can be accomplished turning the fingertightened fitting an additional 1/2 - 3/4 turn (180° - 270°) with a 5/16" wrench like JR-800 or JR-804.



### SS LOOP FOR RHEODYNE INJECTOR

- Fit all Rheodyne® valves
  - Special loops for valve Model 7725
  - Wide range of volumes available
  - High pressure resistance, low permeability
- VICI Jour stainless steel sample loops are made of high quality SS316.

They are cut using an electrolytic cutting process, cleaned with ultrasound and high pressure steam to remove contaminants, dried, and capped with softener-free caps to avoid recontamination of the tubing. All loops are supplied with stainless hex-head nuts and stainless ferrules for reliable connections.





## Clean-Cut tubing cutter

- Cuts PEEK, PTFE, ETFE and other polymeric tubing
- No distortion to OD or ID
- Ideal for the most demanding LC applications
- Safety lock secures the blade

Right angles and clean cuts are essential in LC to avoid leaks and dead volume. This handy tool makes it easy to get burn-free perpendicular ends on polymeric tubing without distorting the outside diameter and/or closing the inside diameter of the tubing.

It is designed to cut PTFE, ETFE and polymers in general and PEEK capillary tubing in particular. The compact design and unique safety locking mechanism allow every chromatographer to keep one in their pocket



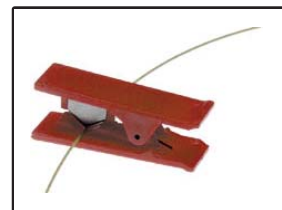
## Cuts PEEK, PTFE, ETFE, and other polymeric tubing Ideal for less demanding LC applications

For 1/16" and 1/8" SS tubing

Leaves smooth, uniform cuts

Minimal deburring and/or reaming required

Easy replacement of the cutting wheel



This is the ideal tool for cutting 1/16" and 1/8" stainless steel tubing, leaving smooth, uniform cuts requiring a minimum of deburring and/or reaming. The easily replaced cutting wheel scores tubing, leaving cuts which allow tube-to-tube and tube-to-frit connections.



## Solid color-coded PEEK tubings

Color-coding identifies the ID of your PEEK

tubing - each ID is coded with

a different color. Solid colored tubing is made of pre-dyed raw material.

All colorants used in the manufacture of this tubing are RoHS-complaint.

(Restriction of Hazardous Substances)

Black Peek Tubing (0.10mm id)



Red Peek Tubing (0.13mm id)



Yellow Peek Tubing (0.18mm id)



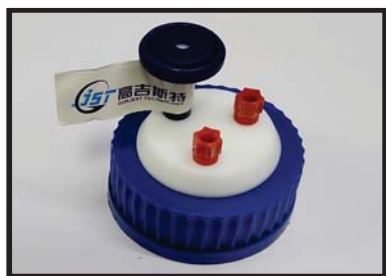
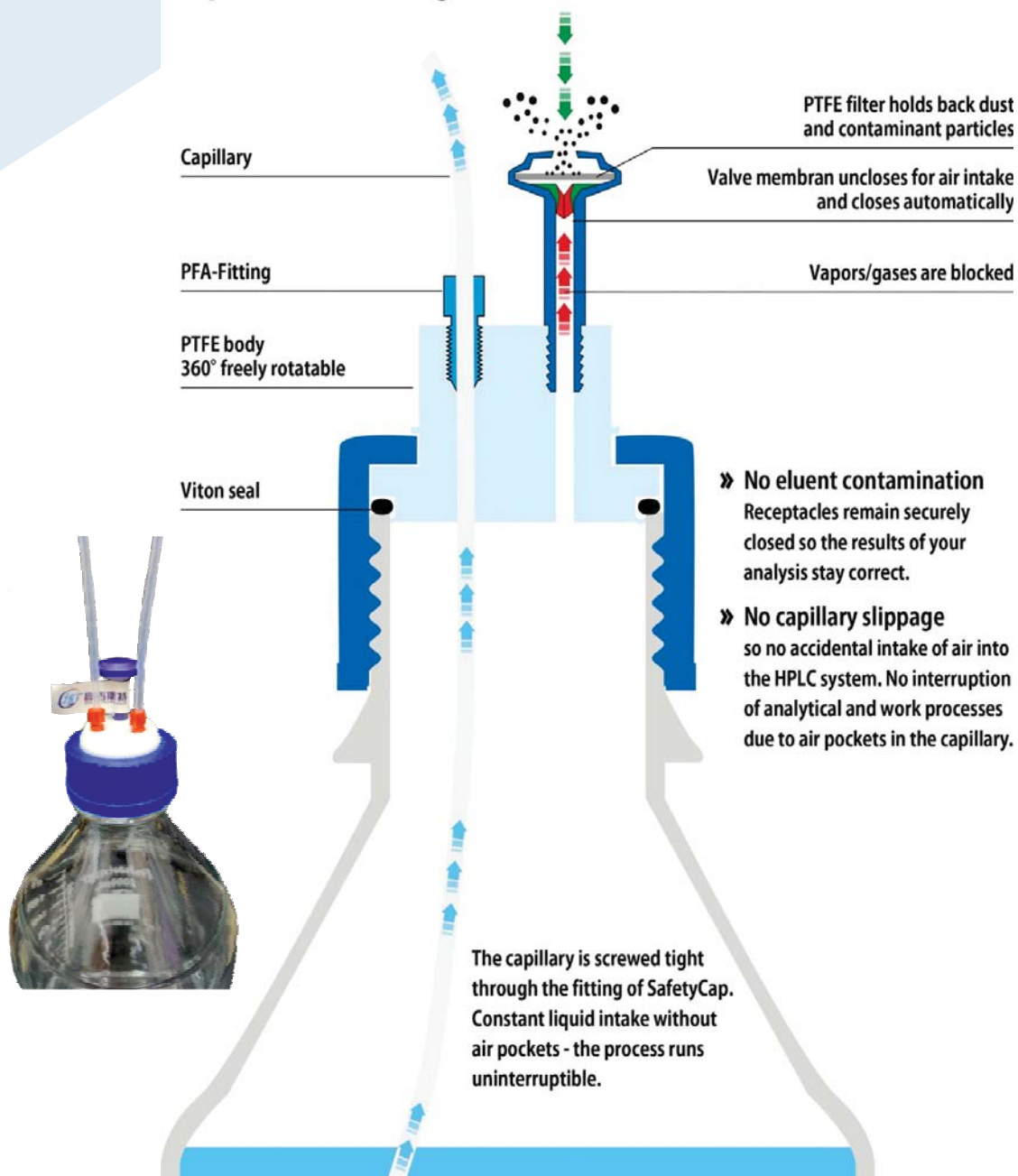
Blue Peek Tubing (0.25mm id)





## SAFETY CAP FOR HPLC

The air valve ensures pressure equalisation during the extraction







Precise Chromatography<sup>TM</sup>



Agela Technologies

## Unisphere HPLC columns

*Excellent Performance-to-cost Value*

- ◆ Double End-cap, Good Inertness
- ◆ Good Stability and Reproducibility
- ◆ Excellent Performance-to-cost Value

### Technical Parameters:

High-purity silica, Metal Impurity < 10ppm  
Average Particle Size : 5µm  
Specific Surface: 320m<sup>2</sup>/g  
Pore Size: 100Å  
Carbon Loading: 18%  
pH Range: 1.5-9.0  
Efficiency: > 80,000/m  
TF: 0.98-1.20



### Unisphere HPLC columns

Using the silica of high-purity and high mechanical strength, the Unisphere C18s are made with high purity monisilane through Agela Technologies well controlled bonding process. They have surface bonding coverage and completely capped. The carbon content is as much as 18%. They have excellent tolerance of chemical and long time. They are the best choice of high performance-to-cost value.



Precise Chromatography<sup>TM</sup>

Chromatography

## Columns and supplies catalog



HPLC



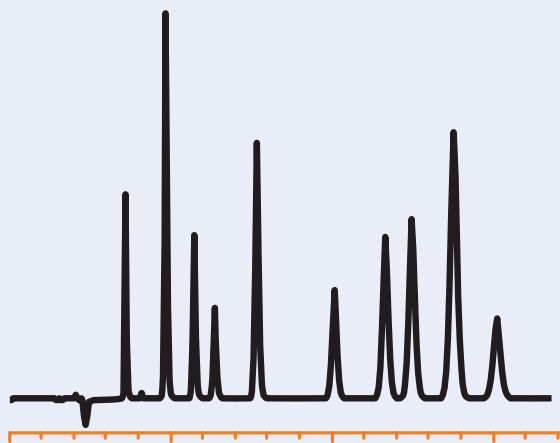
GC



SPE and Flash



Crimper & Decrimper



... we Meet your Needs

**MACHEREY-NAGEL**

[www.mn-net.com](http://www.mn-net.com)



Since 1911



## HPLC COLUMNS



### UNIBOND PRC<sub>18</sub> / PRC<sub>8</sub>

#### Key features:

- Suitable for **LC/MS** and HPLC at pH extremes (pH 1–11)
- Superior base deactivation
- Ideal for method development

#### Technical characteristics:

Available as octadecyl (C<sub>18</sub>) and octyl (C<sub>8</sub>), multi-endcapped; pore size 110 Å; particle sizes 1.8 µm, 3 µm and 5 µm for C<sub>18</sub>, 1.8 and 5 µm for C<sub>8</sub>; 7, 10, 12 and 16 µm particles for preparative purposes on request; carbon content 18 % for C<sub>18</sub>, 11 % for C<sub>8</sub>

#### Recommended application:

Overall sophisticated analytical separations

Compound classes separated include: pharmaceuticals, e.g., analgesics, anti-inflammatory drugs, antidepressants; herbicides; phytopharmaceuticals; immunosuppressants

**USP L1 (C<sub>18</sub>)/USP L7 (C<sub>8</sub>)**

#### Base deactivation

UNIBOND PRC<sub>18</sub> AND UNIBOND PRC<sub>8</sub> are based on the ultrapure silica.

A unique derivatization process generates a homogeneous surface with a high density of bonded silanes (carbon content ~18 % for C<sub>18</sub>, ~11 % for C<sub>8</sub>). The following thorough endcapping suppresses any unwanted polar interactions between the silica surface and the sample, particularly suitable for the separation of basic and other ionizable analytes. The figure on the right shows a comparison study, where the strongly basic amitriptyline is eluted on various highly base deactivated C<sub>18</sub> phases under isocratic conditions.



#### Enhanced pH stability

One major disadvantage of using silica stationary phases is the limited stability at strongly acidic or basic pH ranges. Cleavage of the siloxane bonding by hydrolysis, or dissolution of the silica will rapidly lead to a considerable loss in column performance. Therefore conventional RP phases are usually not recommended to be run with mobile phases at pH > 8 or pH < 2 for extended periods of time. The special surface bonding technology and the low concentration of trace elements of UNIBOND PRC<sub>8</sub> / PRC<sub>18</sub> allow for use at an expanded pH range from pH 1 to 11.

#### When is enhanced pH stability beneficial?

The option to work at an expanded pH range is often required in method development. Many nitrogen containing compounds like basic drugs are protonated at acidic or neutral pH and exhibit poor retention on a standard C<sub>18</sub> phase. The retention behavior can be improved by working at a higher pH, where the analyte is no longer protonated, but formally neutrally charged, as a rule between pH 9–10. For acidic analytes it is exactly in inverse proportion, maximum retention can be attained at low pH.

#### Available in UNIBOND HPLC Column

Unibond PRC18, 250 mm x 4.6 mm x 5 u  
Part No. 821301.46

Unibond PRC18, 150 mm x 4.6 mm x 5 u  
Part No. 821303.46

Unibond PRC18, 150 mm x 4.6 mm x 3 u  
Part no.: 821283.46

Unibond PRC18, 50 mm x 2.0 mm x 1.8 u  
Part No. 821279.20

#### Available in UNIBOND HPLC Column

UNIBOND C18 100 mm x 4.6 mm x 5 u  
Part No. 821304.46

UNIBOND C18 100 mm x 4.6 mm x 3 u  
Part No. 821284.46

UNIBOND C8 250 mm x 4.6 mm x 5 u  
Part No. 822353.46

UNIBOND C8 150 mm x 4.6 mm x 5 u  
Part No. 822352.46



Precise Chromatography<sup>TM</sup>

# SETonic

## Setonic GmbH (Germany)

Tecan XP Syringes  
Replacement syringe  
for Tecan pump  
Front Fitting: 1/4"-28UNF



Tecan XE Syringes  
Replacement syringes for Tecan  
syringe pump



Tecan XLP Syringes  
Replacement syringes  
for Tecan syringe pump  
Front Fitting: 1/4"-28UNF



### GC PAL, CombiPAL

L-MARK® GOLD LMK.2620720C-BL

Titanium Plunger

Premium Syringe

Various seal types:  
PTFE  
PTFE NUB  
PE-HD

Plunger Guide  
Gas tight and to  
prevent side-loading

In & outside  
hydrophobic needle coating

Needle cap mounting  
with PTFE seal

### Agilent 7673







## D2 LAMPS



- Long Life
- Certified
- Warranty 2000 hrs.
- D2 Lamp for Agilent VWD & DAD
- HP 1100,1200,1260,1290



- Long Life
- Certified
- Warranty 2000 hrs.
- D2 Lamp for Shimadzu UV & PDA
- LC2010



- Long Life
- Certified
- Warranty 2000 hrs.
- D2 Lamp for Waters UV & PDA
- 2487 & 2996



- Long Life
- Certified
- Warranty 1000 hrs.
- D2 Lamp for Shimadzu Spectrophotometer
- UV 160,1601,1700,1800.



## Solid Phase Extraction System



### Introduction:

The solid phase extraction system is a negative pressure solid phase extraction device. It uses a solid adsorbent to adsorb the target compound in a liquid sample, separates it from the sample matrix and interfering compounds, and then eluates it with solvent or heats to desorb it to achieve separation and Purpose of enrichment of target compounds (I.e. the separation, purification and enrichment of the sample), the solid phase extraction instrument aims to reduce the interference of the sample matrix and improve the detection sensitivity.

## PP PFA Volumetric Flask for ION CHROMATOGRAPHY



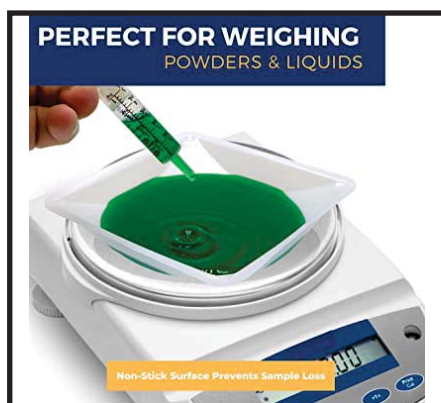


Precise Chromatography<sup>TM</sup>



高吉斯特  
GORJEST TECHNOLOGY

## Lab Consumable Scales & Balances Accessories





# Precise Chromatography<sup>TM</sup>



Flat Bottom Square Polystyrene Weighing Boats  
Color: Light Trans White, Antistatic Large size,  
Capacity: 250ml, Dim: 135 x 135 x 24 mm (5.3 x 5.3 x 0.9")  
(Pk. of 500 nos.)  
Part No. GTPSS13513524N  
Make - Gorjest Technologies

Hexagonal Polystyrene Weighing Dishes  
Color: Light Trans White, Antistatic Large size,  
Capacity: 200ml, OD: 4-3/4", Dep: 7/8"  
(Pk. of 500 nos.)  
Part No. GTPSH70N  
Make - Gorjest Technologies



Polystyrene Weighing Vessels  
Color: Light Trans White, Antistatic  
Medium size,  
Capacity: 120ml, Dim: 133 x 85 x 26 mm (5.2 x 3.2 x 1")  
(Pk. of 250 nos.)  
Part no:- GTPSV1338526N  
Make - Gorjest Technologies

Square Polystyrene Weighing Boats with Small Easy-Pour Spout,  
Color: Light Trans White, Antistatic Medium size,  
Capacity: 100ml, Dim: 89 x 89 x 25 mm (3.5 x 3.5 x 1")  
(Pk. of 250 nos.)  
Part no:- GTPSSP898925N  
Make - Gorjest Technologies



Hexagon Plastic Weighing Dishes Color: Light Trans White,  
Antistatic Medium size,  
Capacity, 50ml, OD: 3", Dep: 3/4" (Pk. of 500 nos.)  
Part no:- GTPSH45N  
Make - Gorjest Technologies

Canoe Plastic Weighing Dishes  
Color: Light Trans White, Antistatic Small size,  
Capacity: 20ml, Dim: 57 x 44 x 8 mm (2.2 x 1.8 x 0.3")  
(Pk. of 250 nos.)  
Part no:- GTPSC57448N  
Make - Gorjest Technologies







Color: Light Trans White, Antistatic  
Small size,  
Capacity: 15ml, Dim: 53 x 38 x 13 mm (2.1 x 1.5 x 0.5")  
(Pk. of 250 nos.)  
Part no:- GTPSV533813N  
Make - Gorjest Technologies

Square Polystyrene Weighing Boats with Small Easy-Pour  
Spout Color: Light Trans White, Antistatic  
Small size, Capacity: 7ml, Dim: 41 x 41 x 8 mm  
(1.6 x 1.6 x 0.3") Rs.1500/- (Pk. of 500 nos.)  
Part no:- GTPSS041418N  
Make - Gorjest Technologies



Diamond Shape Polystyrene Weighing Boats  
Color: Light Trans White, Antistatic  
Small size,  
Capacity: 5ml, Dim: 58 x 36 x 6 mm (2.2 x 1.4 x 0.2")  
(Pk. of 250 nos.)  
Part no:- GTPSD58366N  
Make - Gorjest Technologies

DSC & TGA Aluminium Sample Pan with Lid  
(Pk. of 100 nos.)  
Capacity:- 40ul, Size: 6.65 x 1.7mm  
Part no:- GTTA900786.901  
Make : Gorjest Technologies



DSC & TGA Aluminium Sample Pan with Lid & Pin (Pk. of 100 nos.)  
Capacity:- 40ul, Size: 6.0 x 1.7mm  
Part no:- GTME-00027331  
Make : Gorjest Technologies

Round Micro Aluminum Weighing Boat with  
Handle (Pk. of 100 nos.)  
Capacity:- 250ul, Size:- 11mm x 6.0 mm H  
Part No:- GTAB11060H  
Make : Gorjest Technologies





## Aluminum Moisture Analyzer /Weighing Pans Moisture Analyzer Consumable

Weighing pan, is ideal for general-purpose weighing, dispensing, sampling drying and storage balances and moisture analyzers, Made from light gauge aluminum, no coating and is oil-free, compatible with both open and enclosed balances



## 96-well Deep Well Plates Nonpyrogenic and DNase-/RNase-free



### 96-well Deep Well Plates

Deep well a plates are used for sample collection, in vitro growth chambers and long-term storage. made of polypropylene, they offer excellent chemical resistance and will withstand temperatures down to -80°C. One set of pierceable sealing films, aluminum-based, self-adhesive.



**Swabs**  
**Part No. GTTX7147**  
(Pk of 50 nos.)  
Total swab length - 127.5 mm  
Total head length - 25.7 mm



## Nylon

- High mechanical and tensile strength.
- Universal application for analytical procedures.
- Two types in pore size: 0.22 $\mu$ m and 0.45 $\mu$ m.
- Three types in filter size: 13mm, 25mm and 33mm.

### Typical data

Material
Material of housing
Effective filtration area(cm.)
Pore size( $\mu$ m)
Process volume(ml)
Maximum Operating Temperature
Maximum Operating Pressure(psi)

Nylon	
PP	
13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
0.22/0.45	
<10ml(13mm)	<100ml(25mm)
100°C	
87psi	



## PVDF

- Low protein-binding for filtration of non-aggressive aqueous and mild organic solutions.
- Low UV absorbing extractables and low nonspecific protein
- Two types in pore size: 0.22 $\mu$ m and 0.45 $\mu$ m.
- Three types in filter size: 13mm, 25mm and 33mm.

### Typical data

Material
Material of housing
Effective filtration area(cm <sup>2</sup> .)
Pore size
Process volume(ml)
Maximum Operating Pressum(Psl)

PVDF	
PP	
13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
0.22/0.45	
<10ml(13mm)	100ml(25mm)
100 °C	
87psi	



## PTFE

- For removing particulates, reducing signal-to-noise ratios and maintaining flat baseline.
- Filtering aqueous and organic solutions.
- Two types in pore size: 0.22 $\mu$ m and 0.45 $\mu$ m.
- Three types in filter size: 13mm, 25mm and 30mm.

### Typical data

Material
Material of housing
Effective filtration area(cm <sup>2</sup> .)
Pore size ( $\mu$ m)
Process volume(ml)
Maximum Operating Temperature
Maximum Operating Pressum(Psl)

PVDF	
PP	
13mm/1.13cm <sup>2</sup>	25mm/4.5cm <sup>2</sup>
0.22/0.45	
<10ml(13mm)	100ml(25mm)
130 °C	
87psi	



**Also available in PES, GF+ Nylon, Nylon 1 MICRON**



Precise Chromatography<sup>TM</sup>

LGC

Pharmaceutical  
Reference standards

Mikromol<sup>TM</sup>



Over  
**5,000**  
pharmaceutical  
reference  
standards



QUALITY | ISO 9001 | ISO/IEC 17025 |  
ISO GUIDE 34 GMP/GLP | ISO 13485 |  
ISO/IEC 17043





# Precise Chromatography<sup>TM</sup>



WEIGHTS FOR THE BEST

WEIGHTS AND  
WEIGHT SETS



Registrier-Nr. 059993 QM08  
DIN EN ISO 9001:2008



DIN EN ISO / IEC 17025:2005







Deutsche  
Akkreditierungsstelle  
D-K-15192-01-00





## Sets with mg- weights (wire shape)

Nominal value	Qty.	Content	 Clean room plastic box	 Mahogany wooden box	 Service case	 Clean room case with insert	<b>DAKKS</b> Calibration certificate
			Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.	8.0000- Art.-Nr.
1 mg 5 g	16	6,11 g	8.XEHP-730	8.XEHM-730		8.XEHR-730	731
1 mg 50 g	20	111,11 g	8.XEHP-760	8.XEHM-760		8.XEHR-760	761
1 mg 100 g	21	211,11 g	8.XEHP-770	8.XEHM-770	8.XEHS-770	8.XEHR-770	771
1 mg 200 g	23	611,11 g	8.XEHP-780	8.XEHM-780	8.XEHS-780	8.XEHR-780	781
1 mg 500 g	24	1.111,11 g	8.XEHP-790	8.XEHM-790	8.XEHS-790	8.XEHR-790	791
1 mg 1 kg	25	2.111,11 g	8.XEHP-810	8.XEHM-810	8.XEHS-810	8.XEHR-810	811
1 mg 2 kg	27	6.111,11 g	8.XEHP-820	8.XEHM-820	8.XEHS-820	8.XEHR-820	821
1 mg 5 kg	28	11.111,11 g	8.XEHP-830	8.XEHM-830	8.XEHS-830	8.XEHR-830	831
1 mg 10 kg	29	21.111,11 g	8.XEHP-840	8.XEHM-840	8.XEHS-840	8.XEHR-840	841
1 mg 1 kg (2x)	38	3.778,22 g	8.XEHP-850	8.XEHM-850	8.XEHS-850	8.XEHR-850	851

## Weights in the exclusive assortment case.

### ACCESSORIES

All weight sets include gloves, two brushes and two tweezers.  
Up to 50 g without big tweezers, big brush and gloves.









## HOW TO DETERMINE THE NECESSARY TEST WEIGHTS

### MAXIMUM TOLERANCE FOR WEIGHTS ACCORDING TO OIML R111:2004

Nominal value	E1	E2	F1	F2	M1	M1-2	M2	M2-3	M3
	+/- mg	+/- mg	+/- mg	+/- mg	+/- mg	+/- mg	+/- mg	+/- mg	+/- mg
1 mg	0,003	0,006	0,020	0,06	0,20				
2 mg	0,003	0,006	0,020	0,06	0,20				
5 mg	0,003	0,006	0,020	0,06	0,20				
10 mg	0,003	0,008	0,025	0,08	0,25				
20 mg	0,003	0,010	0,03	0,10	0,3				
50 mg	0,004	0,012	0,04	0,12	0,4				
100 mg	0,005	0,016	0,05	0,16	0,5		1,6		
200 mg	0,006	0,020	0,06	0,20	0,6		2,0		
500 mg	0,008	0,025	0,08	0,25	0,8		2,5		
1 g	0,010	0,030	0,10	0,3	1,0		3,0		10
2 g	0,012	0,040	0,12	0,4	1,2		4,0		12
5 g	0,016	0,050	0,16	0,5	1,6		5,0		16
10 g	0,020	0,060	0,20	0,6	2,0		6,0		20
20 g	0,025	0,080	0,25	0,8	2,5		8,0		25
50 g	0,030	0,10	0,3	1,0	3,0		10		30
100 g	0,05	0,16	0,5	1,6	5		16		50
200 g	0,10	0,30	1,0	3,0	10		30		100
500 g	0,25	0,80	2,5	8,0	25		80		250
1 kg	0,5	1,6	5	16	50		160		500
2 kg	1,0	3,0	10	30	100		300		1.000
5 kg	2,5	8,0	25	80	250		800		2.500
10 kg	5	16	50	160	500		1.600		5.000
20 kg	10	30	100	300	1.000		3.000		10.000
50 kg	25	80	250	800	2.500	5.000	8.000	16.000	25.000
		+/- g	+/- g	+/- g	+/- g	+/- g	+/- g	+/- g	+/- g
100 kg		0,16	0,5	1,6	5	10	16	30	50
200 kg		0,30	1,0	3,0	10	20	30	60	100
500 kg		0,80	2,5	8,0	25	50	80	160	250
1.000 kg		1,6	5	16	50	100	160	300	500
2.000 kg			10	30	100	200	300	600	1.000
5.000 kg			25	80	250	500	800	1.600	2.500

### SETSwth mg- weights (wire shape)

Nominal value	Qty.	Content	 Clean room plastic box	 Mahogany wooden box	 Service case	 Clean room case removeable inserts	PTB Calibration certificate	DAKKS Calibration certificate
			Art.no.	Art.no.	Art.no.	Art.no.	9.0000-Art.no.	9.0000-Art.no.
1 mg 5 g	16	6,11 g	9.XEHP-730	9.XEHM-730			736	731
1 mg 50 g	20	111,11 g	9.XEHP-760	9.XEHM-760		9.XEHR-760	766	761
1 mg 100 g	21	211,11 g	9.XEHP-770	9.XEHM-770	9.XEHS-770	9.XEHR-770	776	771
1 mg 200 g	23	611,11 g	9.XEHP-780	9.XEHM-780	9.XEHS-780	9.XEHR-780	786	781
1 mg 500 g	24	1.111,11 g	9.XEHP-790	9.XEHM-790	9.XEHS-790	9.XEHR-790	796	791
1 mg 1 kg	25	2.111,11 g	9.XEHP-810	9.XEHM-810	9.XEHS-810	9.XEHR-810	816	811
1 mg 2 kg	27	6.111,11 g	9.XEHP-820	9.XEHM-820	9.XEHS-820	9.XEHR-820	826	821
1 mg 5 kg	28	11.111,11 g	9.XEHP-830	9.XEHM-830	9.XEHS-830	9.XEHR-830	836	831
1 mg 10 kg	29	21.111,11 g	9.XEHP-840	9.XEHM-840	9.XEHS-840	9.XEHR-840	846	841
1 mg 1 kg (2x)	38	3.778,22 g	9.XEHP-850	9.XEHM-850	9.XEHS-850	9.XEHR-850	856	851



# Precise Chromatography<sup>TM</sup>

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