PCi® Analytics

GC | HPLC CONSUMABLES ANALYTICAL ACCESSORIES

- I HPLC Consumables
- I GC Consumables
- I Vials, Septa & Caps
- I Crimper & Decrimper
- I GC & HPLC Syringes
- I HPLC Columns
- I GC Columns
- I ICP Accessories
- I D2 Lamps
- I UV Accessories
- I Reference Standards

pconlab®...
(Precision Consumables for Laboratory)

Syringe Filter
Vial, Cap, Septas &
Analytical Accessories

COSMOSIL nacalai tesque
HPLC Columns

Nucleosil / Nucleodur MN
HPLC Columns

SGE Analytical Science
A TRAJAN Brand
Syringes / GC Columns

antylia SCIENTIFIC
AccuStandard®
Reference Standards
- D2 Lamp
- Solvent Safety Cap
- KX VaporSafe™ Waste Manifold

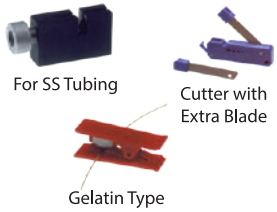
HPLC Consumables

pconlab®...

Syringe Filters

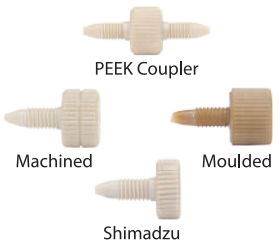
Mobile Phase Filters

PEEK / SS Tubing



Tube Cutters

pconlab®...



PEEK Finger Tight Fittings/Unions

PEEK / Unions

Fittings

Column End Plugs

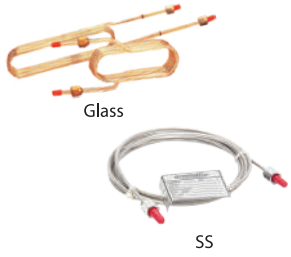
Rheodyne Injector, Rheodyne Loop / Rotor Seal

Safety Caps For HPLC Solvent Bottles

Pre Column Filter Holder & Frit

Filter Paper & Holder

GC Consumables



Packed Columns

Ferrules (Teflon/Graphite)

GC Septas Silicon Rubber / Teflon Coated

Column Adapters

Capillary Column Nuts

Capillary Column Cutter

Capillary Columns

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1.5 ml, Screw Neck Vial N8, 32 x11.6 mm, clear glass, 1st hydrol. class, small opening, label + filling lines

1.5 ml, Screw Neck Vial N8, 32 x11.6 mm, amber glass, 1st hydrol. class, small opening, label + filling lines

8 mm Black Screw Cap with Septa White PTFE Red Silicone

1.5 ml, PP Short Thread Vial, transperent, with filling lines, 32 x 11.6 mm, slightly concave shaped bottom

1.5 ml, Short Thread Vial ND9, 32 x 11.6 mm, clear glass, 1st hydrol. class, wide opening, label + filling lines

1.5 ml, Short Thread Vial ND9, 32 x11.6 mm, amber glass, 1st hydrol. class, wide opening, label + filling lines

9 mm Blue Screw Cap with Septa White PTFE Red Silicone

9 mm PP Short Thread Cap Blue, 6 mm centre hole (Silicone beige / PTFE with slit bonding)

0.3 ml PP Short Thread Micro Vial, transperent, 32 x 11.6mm

1.5 ml, Crimp Neck Vial, 32 x11.6 mm, clear glass, 1st hydrol. class, wide opening, label + filling lines

1.5 ml, Crimp Neck Vial, 32 x11.6 mm, amber glass, 1st hydrol. class, wide opening, label + filling lines

11 mm Aluminium Crimp Cap Silicone white / PTFE red Septa

20ml Headspace-Vial, 75.5 x 22.5mm, clear glass, 1st hydrol. class, DIN-crimp neck, long neck, flat bottom

20ml Headspace-Vial, 75.5 x 22.5mm, amber glass, 1st hydrol. class, DIN-crimp neck, long neck, rounded bottom

10 ml Headspace Vial, 46 x 22.5 mm clear glass, 1st hydrol. class, DIN crimp neck, rounded bottom

10 ml Headspace Vial, 46 x 22.5 mm amber glass, 1st hydrol. class, DIN crimp neck, long neck, flat bottom

Conical Insert with Plastic Spring

Flat Bottom Insert

20 mm Aluminium Crimp Cap with PTFE Silicon Septa

20 mm Magnetic Crimp Cap with PTFE Silicon Septa

20 mm Bimetalic Crimp Cap with PTFE Silicon Septa

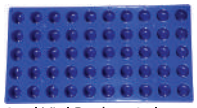
20 ml Headspace Vial, Clear Glass, Screw Neck

18 mm Magnetic Screw with Cap (8 mm centre hole) with septa

40 ml Clear Vial with
Screw Cap and Septa

1 ml Shell Vial, 40 x 8.2 mm, clear glass, 1st hydro. class,
8 mm PE-Plug, soft, without insertion barrier for
Micro-insert, transparent for Waters
Wisp 96 Pos. Carousel, Shimadzu

20 ml Vial Rack



2 ml Vial Rack - 50 slots

2 ml Vial Rack
with Lid - 100 slots

Vial Rack

10 ml Glass Vials, Amber Colored, Crimp Top,
Rubber Stopper with
20 mm Aluminium Seal Cap

10 ml Amber Colour Storage Vial with
Black Screw Cap Closed with
Inner Plug

20 ml Glass Vials, Amber Colored, Crimp Top,
Rubber Stopper with
20 mm Aluminium Seal Cap

Crimper, Decrimper

pconlab®...
(Precision Consumables for Laboratory)

Crimper / Decrimper
(Manual - MS)

Crimper / Decrimper
(Manual - SS)

Crimper / Decrimper
(Advanced)

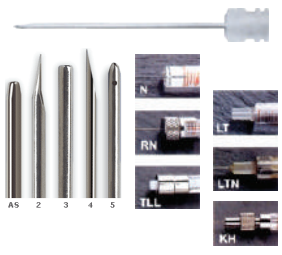
Crimper / Decrimper
(Automatic)

GC & HPLC Syringes

SGE Syringes
(GC / HPLC)

Hamilton Syringes
(GC / HPLC, Auto Sampler / HSS)

Exmire Syringes
(GC / HPLC)



HPLC Needle &
Point Style

Quartz / Glass Cuvettes - UV

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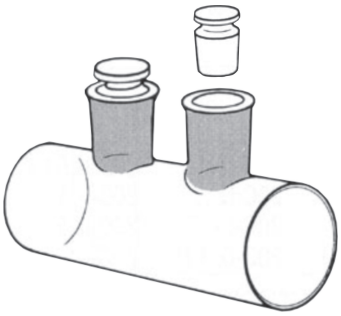
Path Length	Capacity
10 mm	3.5 ml
1 mm	0.35 ml
2 mm	0.70 ml
5 mm	1.7 ml
20 mm	7.0 ml
30 mm	10.5 ml
40 mm	14 ml
50 mm	17.5 ml
100 mm	35.0 ml
10 mm (M) (Micro)	1.0 ml
10 mm (S) (Semi Micro)	1.4 ml
10 mm (U) (Ultra Micro)	0.7 ml
10 mm (U) (Ultra Micro)	0.5 ml
10 mm with Stopper Teflon with Round Bottom	3.5 ml

Fluorimeter Cells - Rectangular

Path Length	Capacity
10 mm	3.5 ml
10 mm (Micro)	1 ml
10 mm (Semi Micro)	1.4 ml
10 mm (U Micro)	0.7 ml
10 mm with Teflon Stopper with Lid	3.5 ml
Other Dimensions Also Available	

Cylindrical Cells

Path Length	Capacity
20 mm	5.64 ml
40 mm	N.A
50 mm	14.1 ml
100 mm	28.2 ml



Polystyrene Calibration Films for FTIR

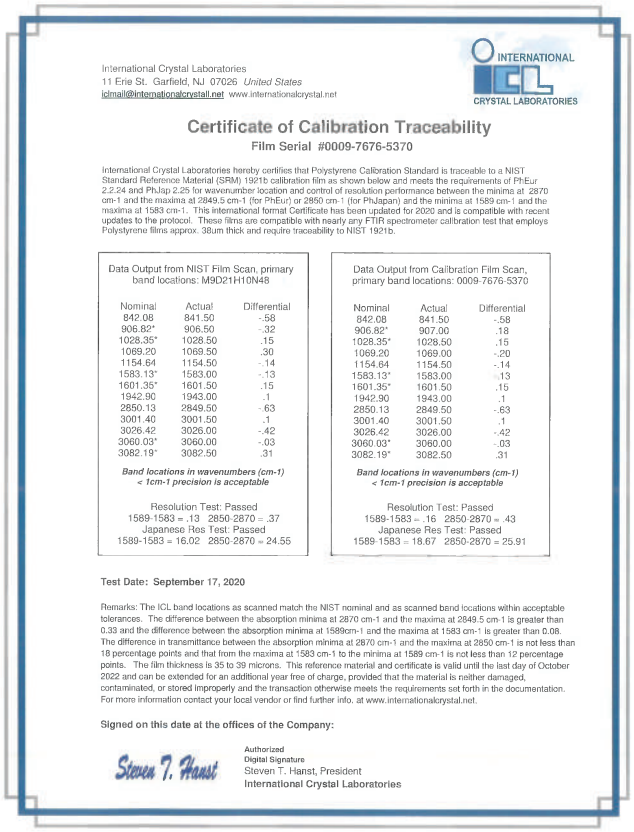
0009-7676 NIST Traceable Polystyrene Test Film, certificate of traceability to five (5) NIST 1921b frequencies, set of 2 films each mounted to 2" X 4" cardstock holder

Also available Poly Styrene Calibration Films for PhEur 2.2.4 & PhJap 2.25

In addition to standard polystyrene calibration films, ICL offers several other calibration options. Superior calibrations are performed with radially symmetric films which eliminate the orientation effects of extruded films used for NIST Standard 1921 calibrations. This makes the films consistent from film to film. Sold in pairs of two (2) different film thickness, the differential between the absorbance intensities created by the two (2) film thickness becomes the baseline, thereby making the pair of films suitable both as an ordinate calibration standard useful for detection of degradation in instrument performance and for calibrating the abscissa scale in accordance with NIST Standard 1921.

Films are available in free standing pairs mounted on 2" x 4" cards that fit in the standard universal slide mount in all spectrophotometers or the films can be cast on KBr windows. Films cast on KBr windows will not exhibit any interference fringes. KBrwindows with films are sold with a mount with a 2" x 3" backplate that fits the standard universal slide mount in all spectrophotometers.

The polystyrene coating prevents degradation of the KBr window from moisture effects. Doped crystal windows are also available as calibration standards. These windows can be matched in pairs with comparable absorbances.
PhEur 2.2.24 films are described in a separate section.



International Crystal Laboratories
11 Erie St. Garfield, NJ 07026 *United States*
iclmail@internationalcrystall.net www.internationalcrystal.net

INTERNATIONAL ICL CRYSTAL LABORATORIES

Certificate of Calibration Traceability

Film Serial #0009-7676-5370

International Crystal Laboratories hereby certifies that Polystyrene Calibration Standard is traceable to a NIST Standard Reference Material (SRM) 1921b calibration film as shown below and meets the requirements of PhEur 2.2.24 and PhJap 2.25 for wavenumber location and control of resolution performance between the minima at 2870 cm-1 and the maxima at 2849.5 cm-1 (for PhEur) or 2850 cm-1 (for PhJapan) and the minima at 1589 cm-1 and the maxima at 1583 cm-1. This international format Certificate has been updated for 2020 and is compatible with recent updates to the protocol. These films are compatible with nearly any FTIR spectrometer calibration test that employs Polystyrene films approx. 38um thick and require traceability to NIST 1921b.

Data Output from NIST Film Scan, primary band locations: M9D21H10N48

Nominal	Actual	Differential
842.08	841.50	-.58
906.82*	906.50	-.32
1028.35*	1028.50	.15
1069.20	1069.50	.30
1154.64	1154.50	-.14
1583.13*	1583.00	-.13
1601.35*	1601.50	.15
1942.90	1943.00	.1
2850.13	2849.50	-.63
3001.40	3001.50	.1
3026.42	3026.00	-.42
3060.03*	3060.00	-.03
3082.19*	3082.50	.31

Band locations in wavenumbers (cm-1) < 1cm-1 precision is acceptable

Resolution Test: Passed
1589-1583 = .13 2850-2870 = .37
Japanese Res Test: Passed
1589-1583 = 16.02 2850-2870 = 24.55

Data Output from Calibration Film Scan, primary band locations: 0009-7676-5370

Nominal	Actual	Differential
842.08	841.50	-.58
906.82*	907.00	.18
1028.35*	1028.50	.15
1069.20	1069.00	-.20
1154.64	1154.50	-.14
1583.13*	1583.00	-.13
1601.35*	1601.50	.15
1942.90	1943.00	.1
2850.13	2849.50	-.63
3001.40	3001.50	.1
3026.42	3026.00	-.42
3060.03*	3060.00	-.03
3082.19*	3082.50	.31

Band locations in wavenumbers (cm-1) < 1cm-1 precision is acceptable

Resolution Test: Passed
1589-1583 = .16 2850-2870 = .43
Japanese Res Test: Passed
1589-1583 = 18.67 2850-2870 = 25.91

Test Date: September 17, 2020

Remarks: The ICL band locations as scanned match the NIST nominal and as scanned band locations within acceptable tolerances. The difference between the absorption minima at 2870 cm-1 and the maxima at 2849.5 cm-1 is greater than 0.33 and the difference between the absorption minima at 1589cm-1 and the maxima at 1583 cm-1 is greater than 0.08. The difference in transmittance between the absorption minima at 2870 cm-1 and the maxima at 2850 cm-1 is not less than 18 percentage points and that from the maxima at 1583 cm-1 to the minima at 1589 cm-1 is not less than 12 percentage points. The film thickness is 35 to 39 microns. This reference material and certificate is valid until the last day of October 2022 and can be extended for an additional year free of charge, provided that the material is neither damaged, contaminated, or stored improperly and the transaction otherwise meets the requirements set forth in the documentation. For more information contact your local vendor or find further info. at www.internationalcrystal.net.

Signed on this date at the offices of the Company:

Steven T. Hanst

Authorized
Digital Signature
Steven T. Hanst, President
International Crystal Laboratories

Certificate of Calibration Traceability

Product Options - Polystyrene Calibration Films

P/N	DESCRIPTION
0009-7676	NIST traceable Polystyrene Test film, certificate of traceability to five (5) NIST 1921b frequencies, set of 2 films each mounted to 2" x 4" cardstock holder Thickness: 35 micron

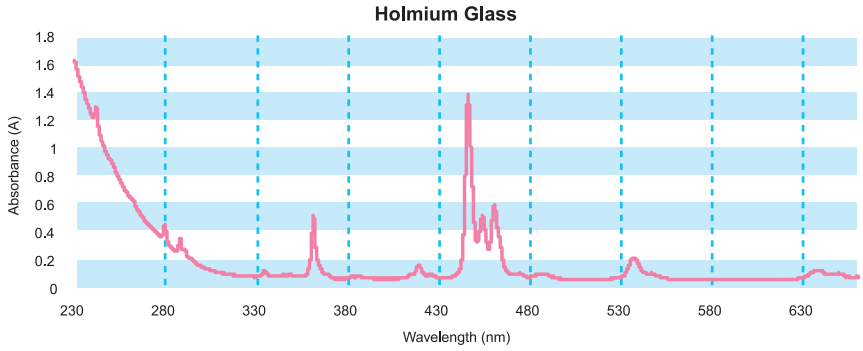
Spectrophotometer UV and Visible Wavelength Qualification Holmium Oxide Glass Reference

The holmium glass filter produces characteristic peaks that make it suitable for use as a wavelength reference material in the UV and visible regions of the spectrum (240 nm – 640 nm).

It is accepted for this purpose by the following bodies:

- American Society for Testing and Materials
- Therapeutic Goods Administration (Australia)
  British Pharmacopoeia

The spectrum shows 11 characteristic and well-defined peaks covering the wavelength range from 240 nm to 640 nm.



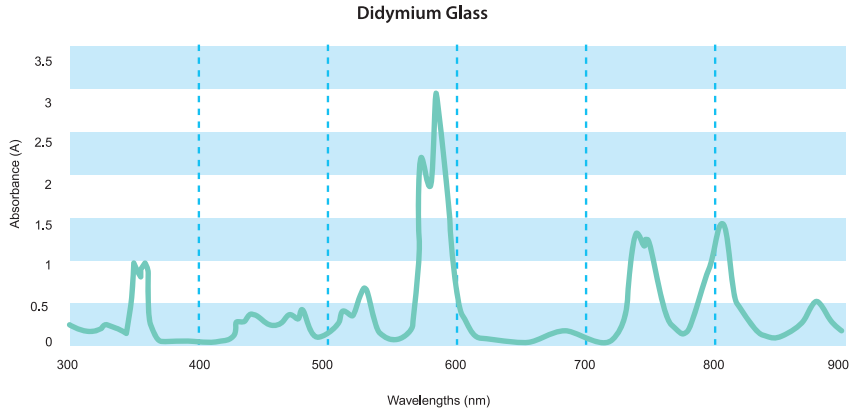
Approximate peak wavelength values (in nm) are: 242, 279, 288, 334, 361, 419, 446, 454, 460, 537, 638

Spectrophotometer Visible Wavelength Qualification Didymium Glass Filters

The didymium glass filter produces characteristic peaks that make it suitable for use as a wavelength reference material in the visible region of the spectrum.

Approximate peak wavelength values (in nm) are:
431, 473, 513, 529, 573, 585, 685, 741, 749, 807, 879.

The spectrum shows 11 characteristic and from 430 nm to 890 nm. well-defined peaks covering the wavelength range



Pconlab Syringe Filters

PCi® Analytics

pconlab®...
(Precision Consumables for Laboratory)

◆ Nylon Syringe Filters

Nylon syringe filters offer universal application for analytical procedures. Hydrophilic Nylon is ideal fo raqueous (non-acid) or organic sample prep and HPLC, GC or dissolution sample analysis. With its excellent flow characteristics, very low extractable levels and mechanical stability, Nylon offer the best combination of physical parameters to meet the most stringent analytical needs in 4 mm, 13 mm, 17mm, 25 mm, 33 mm diameters The naturally hydrophilic, high protein binding and high dirt loading capacity of Nylon are natural advantages.

Features

- Hydrophilic property
- No need to moist before hand
- Uniform aperture
- Strong filters for cell culture provide 4 effective filtration for a wide variety of sample types
- Designed with a female luer-lock inlet and male luer-slip coutlets
- 13 mm Nylon Syringe Filter 0.45 µ
- 13 mm Nylon Syringe Filter 0.22 µ
- 25 mm Nylon Syringe Filter 0.45 µ
- 25 mm Nylon Syringe Filter 0.22 µ

** Other dimensions are available as on request*

Application

- Electric semicounductor industrial water filtration
- Chemical filtration
- Beverage filtration

◆ PTFE Syringe Filters

Syringe filters are purpose-build with features designed to bring the highest levels of performance and purity to your research. We incorporate a variety of membranes to offer separation and purification solutions for the majority of your laboratory needs.

Features

- Broad chemical compatibility
- Strong chemical stability and inertia
- Strong hydrophobicity
- Designed with a female luer-lock inlet and male luer-slip outlets
- 13 mm PTFE Syringe Filter 0.45 µ
- 13 mm PTFE Syringe Filter 0.22 µ
- 25 mm PTFE Syringe Filter 0.45 µ
- 25 mm PTFE Syringe Filter 0.22 µ

** Other dimensions are available as on request*

Application

- Organic solvent with strong chemical causticity filtration
- Strong acid solvent filtration
- Alkali solvent filtration

◆ PVDF Syringe Filters

Syringe filters are purpose-build with features designed to bring the highest levels of performance and purity to your research. We incorporate a variety of membranes to offer separation and purification solutions for the majority of your laboratory needs. PVDF (Polyvinylidene fluoride) extremely low protein-binding for filtration of non-affressive and mild organic solutions, or were maximizing protein recovery is important.

Features

- Good heat endurance and chemial stability, strong hydrophobility
- Designed with female luer-lock inlet and male luer-slip outlets
- 13 mm PVDF Syringe Filter 0.45 µ
- 13 mm PVDF Syringe Filter 0.22 µ
- 25 mm PVDF Syringe Filter 0.45 µ
- 25 mm PVDF Syringe Filter 0.22 µ

** Other dimensions are available as on request*

Application

- Gas filtration
- Vapor filtration
- High-temperature filtration
- Food industry
- Medicine filtration

SGE Analytical Science
A TRAJAN Brand

PCi® Analytics

GC& HPLC SYRINGES

- Fixes Needle Syringes for GC
- Removal Needle Syringes for GC
- Fixed Needle Syringes Flexible Plunger
- Removable Syriges Flexible Plunger
- Guided Plunger Fixed Needle Syringes
- Guided Plunger Removable Needle Syringes
- Gas Tight Syringes Fixed Needle for GC
- Gas Tight Syringes Removable Needle for GC
- SGE Repeating Adaptor Syrignes
- Luer-Lock Gas-Tight Syringes
- For Rheodyne and Valco Valve - HPLC
- Manual Gas Syringes - Plunger in Needle Syringes
- SGE Removable Needle

GC Capillary Columns

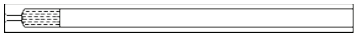
- BP-1 100% Dimethyl Polysiloxane
- BP-5 5% Phenyl Polysiloxane
- BP-10 (1701) - 14% Cyanopropylephenyl / Polysiloxane
- BP-20 (WAX) Polyethylene Glycol
- BP-21 (FFAP) Polyethylene Glycol (TPA Treated)
- BPX-5 5& Phenyl (Equiv.) Polysil Phenylene Siloxene
- BP-225 - 50% Cyanoprophlphenyl Polysiloxane
- BP-1 Pona 100% Dimethyl Polysiloxane
- Cydex-B Permethyl Ated Beta Cyclodextrain
- BP-624 Cyanopropylphenyl Polysiloxane
- BPX-35 - 35% Phenyl (Equiv.) Polysilphenyle - Siloxane
- BPX-50 - 50% Phenyl (Equiv.) Polysilphenylene - Siloxane
- BPX-70 - 70% Cyanopropyle (Equiv.) Polysilphenylene -Siloxane

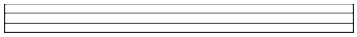
GC Graphite Ferrule

- 1/16" Fittings - All Ferrules supplied in 100% Graphite
- 1/16" Fittings - All Ferrules supplied in 15% Graphite / 85% VESPEL

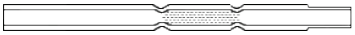
Inlet Liners for Agilent, Thermo Instruments

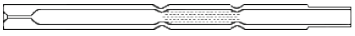

Split / Splitless FocusLiner

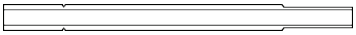

Split/ Splitless with single taper (quartz wool)


Split/ Splitless quartz, straight-through liner

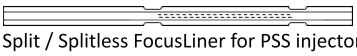
Inlet Liners for PerkinElmer Instruments


Split / Splitless FocusLiner

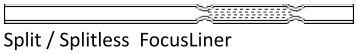

Split / Splitless tapered FocusLiner

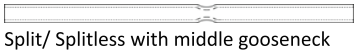

Split, straigth-through liner

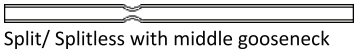

Split / Splitless for PSS injector

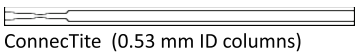

Split / Splitless FocusLiner for PSS injector

Inlet Liners for Shimadzu Instruments


Split / Splitless FocusLiner


Split/ Splitless with middle gooseneck


Split/ Splitless with middle gooseneck


ConnecTite (0.53 mm ID columns)

GC Septa

GP Grade	EC Grade	MN Grade	HT Grade	Enduro Blue
				

Reversed Phase Chromatography Octadecyl Types COSMOSIL MS-II, AR-II, PAQ

COSMOSIL 5C18-MS-II is a monomeric type of C18 phase. A new end capping treatment with polar groups of "sheild effect" has extended the pH range and significantly improved peak shape for basic compounds. This phase is recommended for most of application but particularly effective for low molecular weight organic compounds.

COSMOSIL 5C18-AR-II is a polymeric type of C18 phase. It shows exceptional stability and long lifetime at low pH. This phase is recommended for the separations requiring acidic mobile phase conditions. It also shows superior molecular shape selectivity to monomeric type C18 columns.

COSMOSIL 5C18-PAQ is designed to offer superior retention of polar compounds and excellent reproducibility in highly aqueous mobile phases, even in 100% aqueous.

HPLC column for Saccharide Analysis COSMOSIL Sugar-D

Conventionally aminopropyl bonded stationary phases are used for liquid chromatographic analysis of mono and oligosaccharides. General shortcomings of the conventional aminopropyl bonded phases are tailing and adsorption of certain saccharides and general low durability (short active life) of these columns. These problems are addressed and solved by the novel COSMOSIL Sugar-D, resulting in better (sharper) separation and much improved durability.

In addition COSMOSIL Sugar-D is useful at the separation of highly hydrophilic compounds which are not retained in conventional octadecyl (ODS) bonded statinoary phases.

- ***Novel stationary phase for saccharides***
- ***Superior durability to conventional amino columns***
- ***Minimized undesirable adsorption***

Wide Pore HPLC Column for Protein Chemistry COSMOSIL Protein-R

COSMOSIL Protein-R is a reversed phase HPLC column designed specifically for protein and peptide separation. COSMOSIL C Protein-R provides significantly improved peak shapes, high recovery rate and outstanding stability at low pH, which are often problematic for the separation of proteins and peptides with conventional C18-300 A and C4-300 A columns.

- ***Excellent Separation***
- ***High recovery rate***
- ***Outstanding stability at low pH***

Normal Phase HPLC Column COSMOSIL SL-II

Ultra-pure silica gel of more than 99.99% purity is used for the COSMOSIL SL-II packed column series. This column provides improved separation and reproducibility for compounds with carbonyl or phenol hydroxyl groups, which are often problematic to separate using conventional silica gel columns because of interference of metallic impurities. The follwoings are applications of COSMOSIL SL-II column on organic acids, acid amides and phenols. COSMOSIL SL-II provides improved separation for these compounds without ionic addtives by using mobile phases of hexane and ethanol.

- ***High purity silica gel (>99.99&) with special treatment***
- ***Suitable for preparative separation***

For Less Solvent Consumption with Standard System COSMOSIL 3.0 mm I.D. columns

COSMOSIL 3.0 mm I.D. columns were developed aiming at high sensitivity and the reduction of solvent requirement. A 3.0 mm I.D. column is about twice as sensitive as a 4.6 mm I.D. column. High performance packing material of the same COSMOSIL series is filled into the 3.0 mm I.D. column. As a result, high reproducibility is achieved for separation of chelating compounds and basic compounds. In addition, there is no change the HPLC system. This is a significant advantage over semi-micro bore columns. By using a mid-core 3.0 mm I.D. column, high sensitivity and econimical solvent consumption can be achieved on any conventional HPLC systems.

- ***Use the same conventional HPLC system***
- ***Reduce half solvent consumption***
- ***Increase sensitivity up to two times***

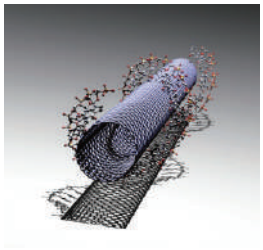
Product Name	Column Size	Product No.
STANDARD REGULAR COLUMN		
COSMOSIL 5C18-MS-II Packed Column	4.6 mm I.D X 150 mm	38019-81
COSMOSIL 5C18-MS-II Packed Column	4.6 mm I.D X 250 mm	38020-41
COSMOSIL 5C18-AR-II Packed Column	4.6 mm I.D X 150 mm	38144-31
COSMOSIL 5C18-AR-II Packed Column	4.6 mm I.D X 250 mm	38145-21
COSMOSIL 5C18-PAQ Packed Column	4.6 mm I.D X 150 mm	02486-71
COSMOSIL 5C18-PAQ Packed Column	4.6 mm I.D X 250 mm	02485-81
COSMOSIL 5C8-MS Packed Column	4.6 mm I.D X 150 mm	38155-91
COSMOSIL 5C8-MS Packed Column	4.6 mm I.D X 250 mm	38156-81
COSMOSIL 5SL-II Packed Column	4.6 mm I.D X 150 mm	38001-91
COSMOSIL 5SL-II Packed Column	4.6 mm I.D X 250 mm	38002-81
COSMOSIL 5CN-MS Packed Column	4.6 mm I.D X 150 mm	38235-41
COSMOSIL 5CN-MS Packed Column	4.6 mm I.D X 250 mm	38236-31
COSMOSIL 5PE-MS Packed Column	4.6 mm I.D X 150 mm	38185-01
COSMOSIL 5PE-MS Packed Column	4.6 mm I.D X 250 mm	38186-91

Product Name	Column Size	Product No.
SPECIAL COLUMN		
COSMOSIL Cholestor Packed Column	4.6 mm I.D X 150 mm	05976-61
COSMOSIL Cholestor Packed Column	4.6 mm I.D X 250 mm	05977-51
COSMOSIL ttNAP Packed Column	4.6 mm I.D X 150 mm	08085-41
COSMOSIL ttNAP Packed Column	4.6 mm I.D X 250 mm	08086-31
COSMOSIL HILIC Packed Column	4.6 mm I.D X 150 mm	07056-51
COSMOSIL HILIC Packed Column	4.6 mm I.D X 250 mm	07057-41
COSMOSIL Sugar-D Packed Column	4.6 mm I.D X 150 mm	05395-71
COSMOSIL Sugar-D Packed Column	4.6 mm I.D X 250 mm	05397-51

COSMOSIL nacalai tesque

PCi® Analytics

HPLC Column for separation of Oluble Carbon Nanotubes COSMOSIL CNT



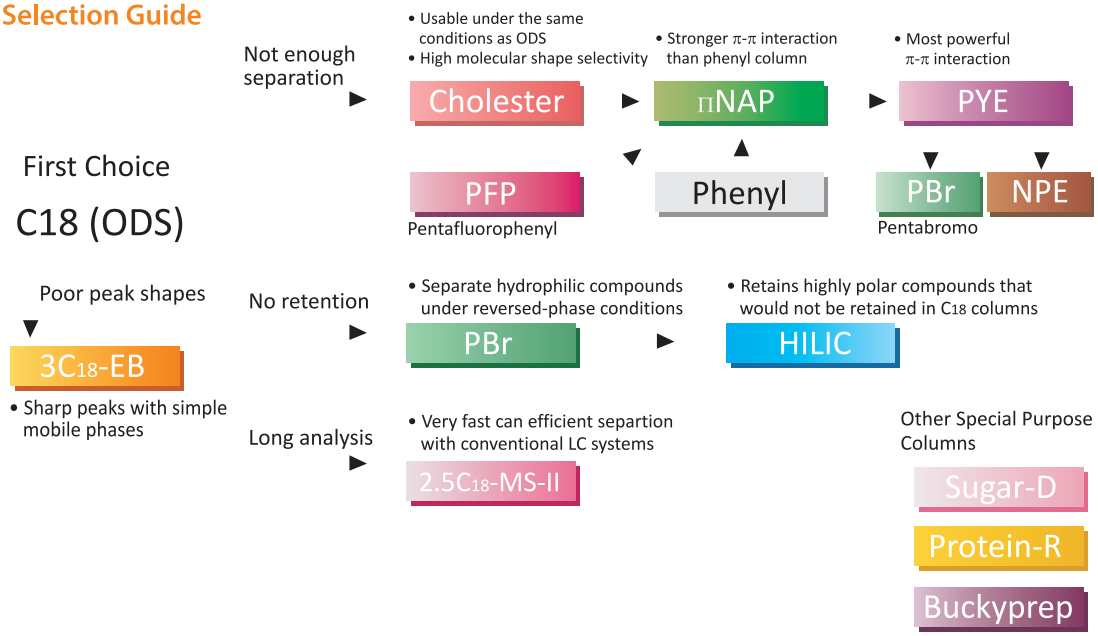
COSMOSIL CNT series are ideal for separation of soluble carbon nanotubes based on sizes. COSMOSIL CNT series are packed with hydrophilic group-bonded silica packing material. The columns are specially designed to avoid adsorption of carbon nanotubes to silica support and thus ensure high resolution and maximum recovery of carbon naotubes. COSMOSIL CNT series are available in three different sizes, 300 A, 1000 A and 2000 A, respectively.

- *Size-based separation of soluble carbon nanotubes*
- *Hydrophilic group coating silica packing material*
- *Three types of pore size (100A, 1000A, 2000A)*
- *High durability*

Gel Filtration Chromatography COSMOSIL Dial-II

- *Ideal for the size-based separation of proteins and water solule polymers*
- *Reduce undesirable adsorption*

Column Selection Guide



COSMOSIL Direct Cartridge Holder (New)

The Direct Cartridge Holder can be used instead of the regular guard cartridge holder. As it screws directly into the column, no connecting tube is required for connection to analytical column!
All guard cartridges are compatible with both the Direct Cartridge Holder and the older Guard Cartridge Holder, as long as the I.D. is the same.

I.D.	Product No.	PKG size
4.6 mm	19989-71	1 PKG

COSMOCORE

Increased loading capacity
Excellent pH stability (1.5-10)

COSMOCORE 2.6C 18

Features

- Ultra high performance LC results with conventional HPLC equipment
- Same number of theoretical places as sub-2 m columns with half the back pressure
- Increased loading capacity
- Excellent pH stability (1.5-10)

About Core-Shell Particles

Core-shell particles consist of a nonporous core inside a porous shell. By using these core-shell particles, one can achieve sharper peaks compared to fully porous silica gel particles of the same diameter with half the back pressure.

Ordering Information

Product Name	Product Number
2.1 mm I.D. X 30 mm	12632-31
2.1 mm I.D. X 50 mm	12631-41
2.1 mm I.D. X 75 mm	12630-51
2.1 mm I.D. X 100 mm	12614-71
2.1 mm I.D. X 150 mm	12612-91
3.0 mm I.D. X 30 mm	12611-01
3.0 mm I.D. X 50 mm	12609-51
3.0 mm I.D. X 75 mm	12608-61
3.0 mm I.D. X 100 mm	12607-71
3.0 mm I.D. X 150 mm	12602-21
4.6 mm I.D. X 30 mm	12601-31
4.6 mm I.D. X 50 mm	12600-41
4.6 mm I.D. X 75 mm	12599-91
4.6 mm I.D. X 100 mm	12598-01
4.6 mm I.D. X 150 mm	12597-11
4.6 mm I.D. X 250 mm	12596-21

MACHERY-NAGEL

PCi® Analytics

MACHERY-NAGEL, the manufacturer of NUCLEOSIL HPLC phases and one of leading companies for chromatography products, presents its Reversed Phase Application Guide.
The 160 page publication includes an introduction to the theoretical aspects of HPLC, a lot of information about modern stationary phases, retention, selectivity and mobile phases.

Aside 150 up-to-date and relevant applications the special chapters Do's and Don'ts and trouble-shooting provide a lot of helpful hints and tips for a successful chromatography. A special selection explains basic aspects and demands of preparative HPLC.

The applications are devided in the fields of:

- Drugs
- Biological and natural compounds
- Food analysis
- Environmental analysis
- Organic compounds

Part No.	Description
720,001.40	EC HPLC column EC 125/4 NUCLEOSIL 100-5 C8 length: 125 mm, ID: 4 mm pack of 1
720,001.46	EC HPLC column EC 125/4.6 NUCLEOSIL 100-5 C8 length: 125 mm, ID: 4.6 mm pack of 1
720,002.20	EC HPLC column EC 125/2 NUCLEOSIL 100-5 C18 length: 125 mm, ID: 2 mm pack of 1
720,002.30	EC HPLC column EC 125/3 NUCLEOSIL 100-5 C18 length: 125 mm, ID: 3 mm pack of 1
720,002.40	EC HPLC column EC 125/4 NUCLEOSIL 100-5 C18 length: 125 mm, ID: 4 mm pack of 1
720,002.46	EC HPLC column EC 125/4.6 NUCLEOSIL 100-5 C18 length: 125 mm, ID: 4.6 mm pack of 1
720,013.40	EC HPLC column EC 250/4 NUCLEOSIL 100-5 C8 length: 250 mm, ID: 4 mm pack of 1
720,013.46	EC HPLC column EC 250/4.6 NUCLEOSIL 100-5 C8 length: 250 mm, ID: 4.6 mm pack of 1
720,014.20	EC HPLC column EC 250/2 NUCLEOSIL 100-5 C18 length: 250 mm, ID: 2 mm pack of 1
720,014.30	EC HPLC column EC 250/3 NUCLEOSIL 100-5 C18 length: 250 mm, ID: 3 mm pack of 1
720,014.40	EC HPLC column EC 250/4 NUCLEOSIL 100-5 C18 length: 250 mm, ID: 4 mm pack of 1
720,014.46	EC HPLC column EC 250/4.6 NUCLEOSIL 100-5 C18 length: 250 mm, ID: 4.6 mm pack of 1

Part No.	Description
720,041.40	EC HPLC column EC 250/4 NUCLEOSIL 120-5 C18 length: 250 mm, ID: 4 mm pack of 1
720,041.46	EC HPLC column EC 250/4.6 NUCLEOSIL 120-5 C18 length: 250 mm, ID: 4.6 mm pack of 1
720,042.40	EC HPLC column EC 250/4 NUCLEOSIL 120-7 C18 length: 250 mm, ID: 4 mm pack of 1
720,043.40	EC HPLC column EC 250/4 NUCLEOSIL 120-10 C18 length: 250 mm, ID: 4 mm pack of 1
720,043.46	EC HPLC column EC 250/4.6 NUCLEOSIL 120-10 C18 length: 250 mm, ID: 4.6 mm pack of 1
720,045.40	EC HPLC column EC 125/4 NUCLEOSIL 300-5 C4 MPNlength: 125 mm, ID: 4 mm pack of 1
720,046.40	EC HPLC column EC 150/4 Resolvosil BSA-7 length: 150 mm, ID: 4 mm pack of 1
720,050.40	EC HPLC column EC 125/4 NUCLEOSIL 120-5 C8 length: 125 mm, ID: 4 mm pack of 1
720,050.46	EC HPLC column EC 125/4.6 NUCLEOSIL 120-5 C8 length: 125 mm, ID: 4.6 mm
720,051.40	EC HPLC column EC 250/4 NUCLEOSIL 120-5 C18 length: 125 mm, ID: 4 mm pack of 1
720,051.46	EC HPLC column EC 250/4.6 NUCLEOSIL 120-5 C18 length: 125 mm, ID: 4.6 mm pack of 1
720,052.40	EC HPLC column EC 250/4 NUCLEOSIL 120-5 C8 length: 250 mm, ID: 4 mm pack of 1

OPTIMA Capillary Columns

TLC Plates

NUCLEODUR®

Professional solutions for HPLC

Several different surface modifications based on NUCLEODUR silica have been developed over the last years providing a full range of specified HPLC phases and an ideal tool for every separation:

- NUCLEODUR C18 Gravity and C8 Gravity
- NUCLEODUR C18 Isis
- NUCLEODUR C18 Pyramid
- NUCLEODUR PolarTec
- NUCLEODUR PFP
- NUCLEODUR Sphinx RP
- NUCLEODUR C18 HTec
- NUCLEODUR C18 ec and C8 ec
- NUCLEODUR HILIC
- NUCLEODUR CN and CN-RP
- unmodified NUCLEODUR

All phases are described in detail on the following pages.

Highest effciency in HPLC by core-shell technology

NEW

Ultrafast separations beyond high pressure driven UHPLC Core-shell silica

NUCLEOSHELL® core-shell particle technology from MACHEREY-NAGEL is an alternate route to gain highest column efficiency and resolution at almost the same short run time but with much lower back pressure.

NUCLEOSHELL® modifications

The program of NUCLEOSHELL® surface modifications now comprises the following phases:

- NUCLEOSHELL® RP 18
- NUCLEOSHELL® RP 18plus NEW!
- NUCLEOSHELL® Phenyl-Hexyl
- NUCLEOSHELL® PFP
- NUCLEOSHELL® HILIC

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◆ HAMAMATSU UV Detector Lamps and Instrument Spares

Guaranteed quality long life HPLC lamps

Deuterium 2000 Hour Lamps for HPLC UV Detection

HAMAMATSU have been maufacturing lamps since 2002 and we now have over 10 years experience in precision lamp alignment. Using processes verified by the world's leading lamp manufacturers, HAMAMATSU are able to offer the highest quality lamp on the market today whilst offering customers huge price savings.

HAMAMATSU as the world's largest 3rd party lamp manufacturer with repeat business in every market sector across the globe.

Agilent

1100 1200 1260 1290

PART NO.	OEM EQUIVALENT	DETECTOR MODELS	GUARANTEE	MATCHES OEM
LD-AGI-104LL	G1314-60100, G1314-60101 5181-1530	G1314A/B/D/E/F VWD G1315A/B/C/D DAD	2000 Hrs/1 Year	✓
LD-AGI-105LL	2140-0813 2140-0820	G1365A/B/C/D DAD	2000 Hrs/1 Year	✓
LD-AGI-108LL	5190-0917	G4212A/B (8-Pin)	2000 Hrs/1 Year	✓

Waters

996 2996 2487 Alliance

PART NO.	OEM EQUIVALENT	DETECTOR MODELS	GUARANTEE	MATCHES OEM
LD-WAT-104LL	WAT052586	996 2996	2000 Hrs/1 Year	✓
LD-WAT-105LL	WAS081142	2487 Alliance	2000 Hrs/1 Year	✓

Shimadzu

SPD10A AVVP M10AVP 20A 20AV 2010

PART NO.	OEM EQUIVALENT	DETECTOR MODELS	GUARANTEE	MATCHES OEM
LD-SHI-101LL	228-34016-02	SPD10A AVP AVVP M10AVP 20A 20AV	2000 Hrs/1 Year	✓
LD-SHI-103LL	228-37401-00	LC2010	2000 Hrs/1 Year	✓
LD-SHI-102LL*	060-65055-05	UV1800 / All Spector- -photometers IV/AA	2000 Hrs/1 Year	✓

Dionex

Ultimate 3000 3000RS 3100 3400 PDA100 PDA3000 Gynkotek UVD 320 340S 160 170S 170U

PART NO.	OEM EQUIVALENT	DETECTOR MODELS	GUARANTEE	MATCHES OEM
LD-DIO-102LL	939016T	PDA100 PDA3000	2000 Hrs/1 Year	✓
LD-DIO-105LL	6074.1110	ULTIMATE	2000 Hrs/1 Year	✓
LD-GYN-100LL	5053.1200	UVD 320 340S 160 170S 170U	2000 Hrs/1 Year	✓

Merck Hitachi

LaChrom

PART NO.	OEM EQUIVALENT	DETECTOR MODELS	GUARANTEE	MATCHES OEM
LD-MEH-100LL	892-2550	All L and U Series	2000 Hrs/1 Year	✓

We have a comprehensive range of lamps not listed here all available on request for many other makes and models of UV HPLC detectors and Spectrophometers.

UV-VIS / Hollow Cathode Lamp AAS

Hollow Cthode Lamp

Tungston / Halogen Lamp

Heraeus Lamp

Safe HPLC Waste Management In Laboratories

HPLC Solvent Waste Kit

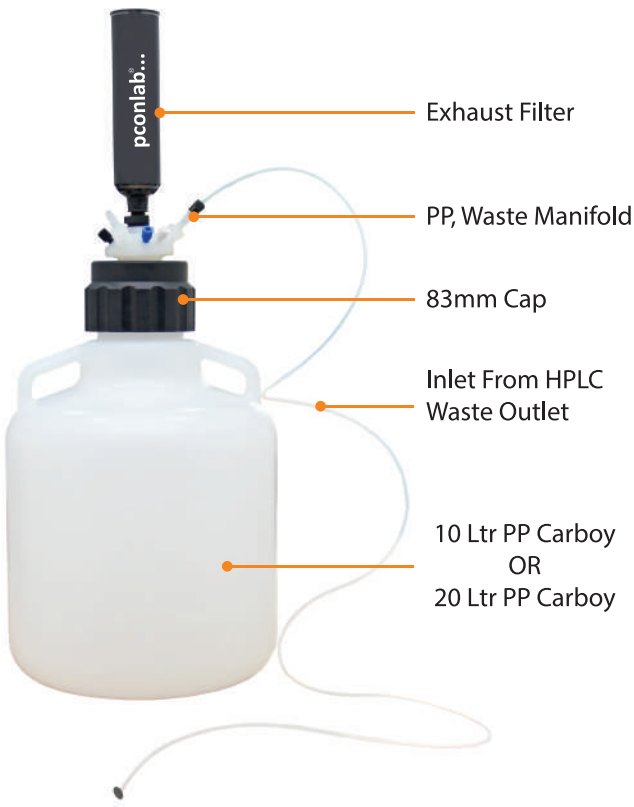
Collect effluent from multiple sources while minimizing harmful solvent exhaust

- 10 port manifold - 1x1/2" NPT(F),3x1/4" NPT(F),and 6x1/4-28 UNF(F)-1 Each
- 83B Connection
- Polpropylene(PP) manifold
- PP Waste Collection Container , Carbouy 83mm Neck Size - 10 Ltr/20 Ltr
- SS Waste Collection Container,Carbouy 83mm Neck Size - 10 Ltr

pconlab®...

(Precision Consumables for Laboratory)

HPLC Solvent Waste Safety System



Solvent Safety System for HPLC

From Solvent Delivery

pconlab Bottle Caps minimize hazardous VOCs evaporating from the reservoir into the laboratory, keep mobile phases clean and securely connect the solvent reservoir with any HPLC system.

Safety & Cleanliness

The PTFE body of the cap creates a tight seal against the mobile phase reservoir. Tubing is connected using liquid and air tight fittings into the threaded connection ports. The air entering the container when solvent is withdrawn is filtered through a 120µ m PTFE particulate filter. A built-in check valve prevents solvent vapours escaping into the lab through the particulate filter. All materials used are highly solvent compatible: Polypropylene (collar), PTFE (body) and FFKM (seals), making the caps useable in any LC laboratory.

Connections

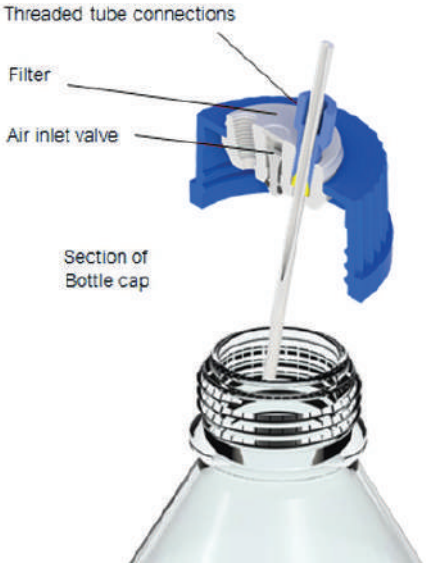
pconlab Bottle Caps for GL45 bottles are available with two or four connection ports. The threaded connection ports allow connecting 1/8" or smaller OD tubing, which is securely fastened using standard ¼"- 28 flat bottom fittings.

Complete

Bottle caps and accessories are offered individually and as complete kits. A kit contains either one or four bottle caps complete with fittings for 1/8" OD tubing and plugs for unused ports.

From Solvent Delivery

pconlab®...
(Precision Consumables for Laboratory)




2 Port


2 Port


2 Port


4 Port

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- Traceability to NIST SRM by Wet Chemical / Gravimetric Assay
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