SepaChrom — Your Specialists in Chromatography

Benson polymeric™

Carbohydrates and Organic Acid Columns

Your Specialists in Chromatography

Company Profile

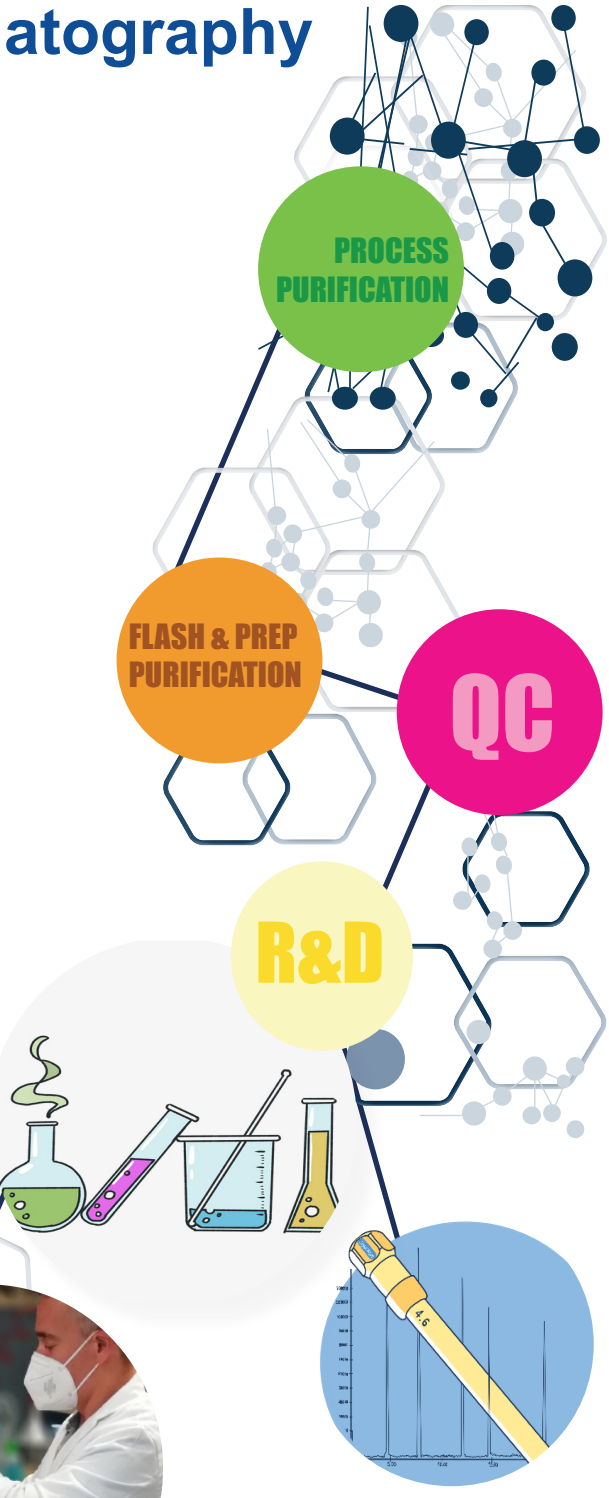
SepaChrom is the brainchild of the founders to create a dedicated reality, unique and able to support the **Chromatography users** optimizing their challenges.

Our Core competence is the manufacturing and trading of ***High-Quality*** products for **Chromatography**.

SepaChrom product portfolio includes a wide range of in-house manufactured ***HPLC*** Columns in both ***Analytical*** and ***Preparative*** scale, ***Flash*** cartridges & Instruments, and ***Process*** scale purification.

Our offer of products for Chromatography includes consumables and accessories, for both **HPLC** and **GC** techniques.

Our brands **Robusta®, Adamas®, Vydamas®, TMC®, Purezza®**, **Sepa-Bulk®** are only few of the product lines we propose to the **Chromatographers**.



Our Mission

Decades of experience of our team, combined with a range of High Quality selected products and the most efficient technological solutions, allows ***SepaChrom*** to be a reference to :

- **Pharma,**
- **Biotech,**
- **Chemical,**
- **Food and Beverage,**
- **Cosmetic,**
- **Environmental,**
- **Clinical**
- **Petrolchemical**

industries, at **R&D** department as well **QC** laboratories and **Production**.

Our commitment is to provide the Highest Technical Support that Chromatographers expect from

Your Specialist in Chromatography

Customers in Mind

The success of ***SepaChrom*** depends by the complete ***satisfaction*** of our customers, and consequently by their success.

SepaChrom expertise result in a High-Quality support ***pre & after*** sales to the Chromatographic Users.

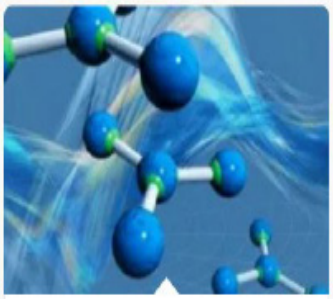
A world-wide Distributor Network will assure the users the best in class technical and commercial support to properly approach their Chromatography challenges.

This include a ***fast delivery*** of your products from our warehouse to everywhere.

Carbohydrates and Organic Acid Columns

For over 30 years Benson Polymeric, Inc., has provided premium polymeric packing materials and pre-packed columns to the analytical chemical analysis industry throughout the world. Benson Polymeric provides polymeric materials for a wide variety of applications, but we are primarily known for our Carbohydrate and Organic Acid Analysis columns. The main objective of our company is to provide the highest quality products and technical services to our customers. Since our sole focus is on the manufacturing of polymeric products for HPLC, we are able to offer outstanding consistency and value to our customers. Not only can we reduce your analysis costs, we also provide quick and knowledgeable service to our customers.





Carbohydrates

Benson Polymeric columns utilize a variety of separation mechanisms that allow carbohydrates to be separated without the need of gradients

Organic Acids

Benson Polymeric offers a wide array of columns for the analysis of organic acids. All of our columns are packed with polymeric materials specifically designed to maximize your separation needs.

Applications

Benson Polymeric column are highly versatile and can be used for applications ranging from food and beverage analysis to biofuels.

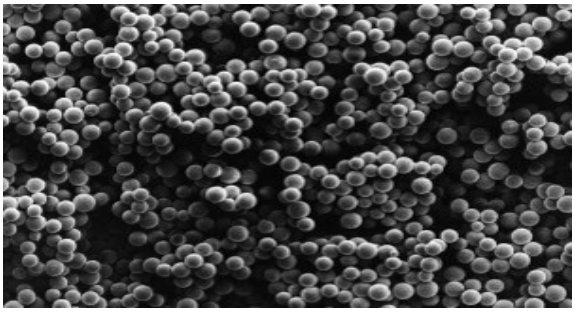
Compounds

A number of compounds can be analyzed using Benson Polymeric columns. From Acetone to Xylose and many compounds in between. Our columns are perfect for maintaining quality and reliability.

Benson Polymeric Technology:

Our polymers are low cross-linked polystyrene-divinylbenzene co-polymers (gels). PS-DVB gels form the foundation of our column technology and are ideal for the analysis of many types of small molecules such as carbohydrates and organic acids.

We sulfonate our polymer to form the core of our technology. This charged gel is extremely versatile and can be further modified to enhance separations of different types of samples. Below is a diagram of a sulfonated gel. In this diagram, the H (hydrogen) represents the “metal” ligand attached to the sulfone group. Other metals such as calcium , lead, sodium, potassium and silver can be alternatively attached to affect the selectivity of the column.



Polystyrene-divinylbenze co-polymers (gels)

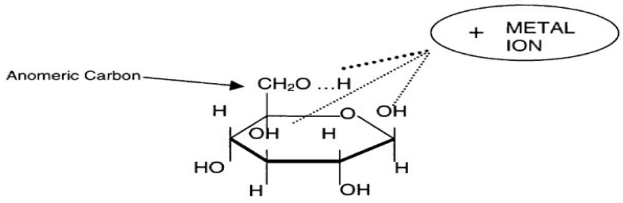
Carbohydrates and Organic Acid Columns

Carbohydrate Analysis columns : Separation Mechanisms

Carbohydrate samples are primarily separated on our columns by ligand exchange and size exclusion. For carbohydrate analysis, we attach different metals to the anionic sulfone group on our polymer backbone. The larger the metal, the stronger the attraction to a negatively charged molecule. We offer calcium, lead, sodium potassium, and silver form columns to maximize your separation needs. The selectivity of the column for certain compounds is also enhanced by column temperature. Elevated temperature is especially critical for these types of columns. Not only can the chemist use temperature to enhance their particular separation, it is also vital to keep the column operating pressures within specified ranges since gels are pressure sensitive. Water is the only recommended eluent since the metal can displaced by any positively charged molecule over time. To determine the proper choice in columns, the chemist must balance resolution needs and analysis time. Although the lead metal has the highest affinity for carbohydrates it adds analysis time. For many common samples, the calcium form column offers the best balance of separation and analysis time. We also offer a variety of column sizes to further enhance your choice of columns.

The most common size column for this type of technology is the 300x7.8mm size column. However, we offer a wide variety of column lengths and bore sizes.

Here on the right a diagram shows the main separation mechanism (ligand exchange) for separating sugar and sugar alcohols. The hydroxyl groups on the sugar (ligand) are attracted to the metal ion on the polymer. Water successfully competes with the ligands as the eluent, resulting in the sugars being eluted from the column. The larger the metal, the greater the attraction.



Organic Acid Analysis columns : Separation Mechanisms

Organic acid analysis samples are primarily separated on our columns by ion exclusion. By totally sulfonating the membrane, the bead behaves as though it were a negatively charged sphere. This charged sphere is referred to as a Donnan membrane. Species that have a negative charge are repelled from the negatively charged membrane, while uncharged species are allowed to enter the sphere and adsorb onto the beads.

R-COO- + H+ ⟷ R-COOH
(repelled) (retained)

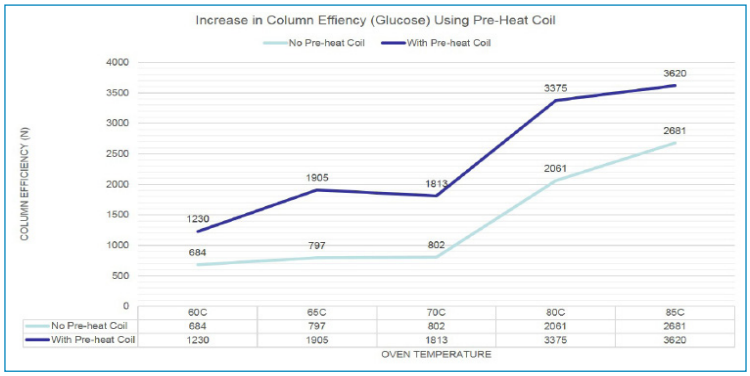
Dilute acid eluents are used to promote the neutral state of the organic acid to allow interaction with the polymer. Mixtures containing both carbohydrates and organic acids can be separated but due to the weakness of the hydrogen atom it has limited ability to separate carbohydrates compared to metals like calcium or lead. Selectivity for particular compounds can be enhanced by altering the eluent strength. Temperature is also critical to enhance certain separations. Not only can the chemist use temperature to enhance their particular separation, it is also vital to keep the column operating pressures within specified ranges since gels are pressure sensitive. We offer a variety of column sizes to further enhance your sample separations. The most common size column for this type of technology is the 300x7.8mm size column. However, we offer a wide variety of column lengths and bore sizes.

Carbohydrate and Organic Acid Analysis : Type of Detectors

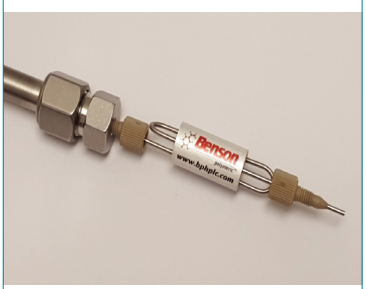
Differential Refractive Index (DRI) detectors are the most common systems for identification of both carbohydrates and organic acids. No gradients are required using our technology which allows for use of this type of simple universal detector. The disadvantage of DRI detectors is the relatively low sensitivity of detection. For increased sensitivity of detection of organic acids Ultraviolet Detectors (UV) and Conductivity detectors are commonly used. The disadvantage of UV detectors is that carbohydrates are weak absorbers of UV light and therefore cannot be practically detected by this method. Note: A column oven is a key component to any test system. Elevated temperatures increase column efficiency, reduce column back pressure, and can be used to alter the selectivity of the column for certain compounds.

Temperature Effect on Column Efficiency

The graph below demonstrates the importance of elevated temperature on glucose efficiency. Study was performed on BP-800 Ca column. Efficiency is enhanced by using higher temperature and also Benson pre-heat coil.



Pre-heat Coil to Enhance your column efficiency



Part.No **BL0036** - Pre-Heat Coil for Carbohydrate and Organic Acid Columns

Carbohydrates and Organic Acid Columns

Retention Times

The retention times chart is a partial listing of the retention times of common organic acids tested on Benson Polymeric
columns using typical test conditions (0.6 ml/min, 60°C, 0.01N sulfuric acid).
The retention time of organic acids can be influenced using acid strength, temperature, and column choice. By choosing the proper combination of the test conditions
and column, your sample separation will be optimized. For specific recommendations on the column and test conditions best suited to maximize your particular sample please do not hesitate to contact our Technical Support at info@sepachrom.com

	BP-OA	BP-100-H
Compound	Item BL0053	Item BL0021
Citric	7.5	8.6
Tartaric	8.0	9.5
Maleic	8.2	9.0
Aconitic	8.6	10.7
Malic	8.8	10.3
Glycoxylic	9.2	10.3
Pyruvic	9.2	9.9
Malonic	9.3	10.7
Succinic	10.4	12.2
Shikimic	10.5	12.9
Glycerol	11.4	12.9

	BP-OA	BP-100-H
Compound	Item BL0053	Item BL0021
Fumaric	11.5	14.7
Lactic	11.9	11.6
Adipic	12.5	15.8
Formic	12.9	13.9
Acetic	13.8	14.9
Propionic	15.8	17.4
Methanol	18.7	18.7
Ethanol	21.4	20.6
Propanol	25.9	22.2
Butaniol	32.9	25.2

Column Comparison Table

Column Comparison Chart: Benson Polymeric offers a complete line of high quality and cost effective columns for analysis of organic acids and carbohydrates. The cross reference table below lists our recommended replacement columns for polymeric columns offered by other suppliers. For specific recommendations on the column and method best suited to maximize the separation of your particular sample please do not hesitate to contact the SepaChrom Technical Support.

Cross Reference Table

Description	Part.No	Column Size (mm)	Bio-Rad (Aminex)	Phenomenex (Rezex)	Agilent	Varian (Metacarb)	Transgenomic	Dionex	Shodex	Others
BP-OA	BL0056	250 X 4.6					ICE-99-8461	064198		Hamilton 79476
BP-OA	BL0055	100 X 7.8	125-0100	00D-0223-KO		A5059	ICE-99-5861			
BP-OA	BL0053	300 X 7.8	125-0140	00H-0132-KO 00H-3252-KO		A5210	ICE-99-9861 ICE-99-9810	043197	F6378100 F6378030	Hamilton 79544
BP-100-H	BL0021	300 X 7.8				A5215	ICE-99-9850			Alltech 9646
BP-100-H Guard	BL0025	50 X 4.6				A5211 A5216	CHO-99-3561	067842		
BP-OA Guard	BL0059	50 X 4.6				A5211 A5216	CHO-99-3561	067842		
BP-100-Ca	BL0004	300 x 7.8								
BP-100-Ca	BL0064	300 x 6.5			PL1F70-6850		CHO-99-9753			Waters WAT085188 Alltech 70057
BP-200-Ca	BL0050	300 x 7.8	125-0096							Hamilton 79432
BP-200-Na	BL0051	300 x 7.8		00P-0137-NO	PL1171-6140	A5238	CHO-99-9850			
BP-200-Ag	BL0052	300 x 7.8	125-0097	00P-0133-NO		A5223	CHO-99-9851			
BP-100-Pb	BL0036	300 x 7.8				A5220	CHO-99-9854			
BP-800-Ca	BL0013	300 x 7.8	125-0095	00H-0130-KO	PL1170-6810	A5200 A5205	CHO-99-9860 CHO-99-9855		F6378102	Hamilton 79436
BP-800-Ca	BL0017	250 x 4.0	125-0094		PL1570-5810	A5092	CHO-99-8453		MN-431	Hamilton 79431
BP-800-K	BL0065	300 x 7.8	125-0142	00H-3252-KO	PL1170-6860	A5095	CHO-99-9862			
BP-800-H	BL0003	300 x 7.8			PL1170-6830					
BP-800-Na	BL0034	300 x 7.8	125-0143	00H-0136-KO	PL1170-6840	A5041	CHO-99-9863		F6378010	
BP-800-Pb	BL0041	300 x 7.8	125-0098	00H-0135-KO	PL1170-6820	A5241	CHO-99-9864		F6378105	Hamilton 79476

Carbohydrates and Organic Acid Columns

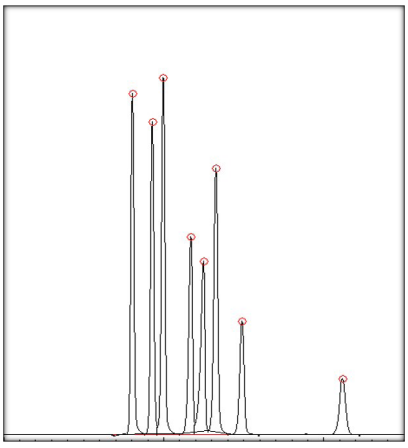
Column	Part.No	Typical Applications of Organic Acids Columns
BP-OA	BL0056	USP Analysis of Citric, Lactic and Acetic Acid
BP-OA	BL0055	Rapid Screening of Fruit Samples such Graper Must, Ethanol, Acetic Acid, Glycerol, Fructose, Glucose
BP-OA	BL0053	Organic Acids in Dairy Products, Food Additives, Flavor Indicators, Food Stability, Vitamin Content, Ascorbic Acid and Nutritional Analysis
BP-100-H	BL0021	Organic Acids in Dairy Products, Food Additives, Flavor Indicators, Food Stability, Vitamin Content, Ascorbic Acid and Nutritional Analysis
BP-100-Ca	BL0004	Corn Syrup, Sugar Alcohols, Sugars
BP-100-Ca	BL0009	USP Analysis of Mannitol and Sorbitol
BP-100-Ca	BL0064	Corn Syrup, Sugar Alcohols, Sugars
BP-200-Ca	BL0050	Corn Syrup, Sugar Alcohols, Sugars
BP-200-Na	BL0051	Oligosaccharide Analysis up to DP11 in Samples Containing Salts
BP-200-Ag	BL0052	Oligosaccharide Analysis up to DP11
BP-100-Pb	BL0036	Biomass Derived Sugar Samples, Lactose, Sucrose, Maltose
BP-800-Ca	BL0013	Sweetner Analysis, Monosaccharides, High Fructose Corn Syrup, di-tri & tetra-Saccharides, Sugar Alcohols, Mannitol and Sorbitol
BP-800-K	BL0065	mono-di-tri-Saccharide Analysis in Corn Syrup and Brewing Wort Samples, Glucose, Maltose, Maltotriose, Betaine.
BP-800-Na	BL0034	Molasses and other Sugars in High Salt Samples
BP-800-Pb	BL0041	Cellulose-derived Monosaccharides, Pentose and Hexoses from Wood Products, Dairy Products (Sucrose, Lactose, Fructose)

Analysis	Column	Form	Particle Size	Cross-linkage	USP	Dimension	Stock N#
Carbohydrates	BP-100-Ca	Calcium	9µ	6%	USP L19	300 x 7.8mm	BL0004
	BP-100-Ca	Calcium	9µ	6%	USP L19	100 x 7.8mm	BL0007
	BP-100-Ca	Calcium	9µ	6%	USP L19	250 x 4.6mm	BL0008
	BP-100-Ca	Calcium		6%	USP L19	Guard 50 x 4.6mm*	BL0012
	BP-800-Ca	Calcium	9µ	8%	USP L19	300 x 7.8mm	BL0013
	BP-800-Ca	Calcium	9µ	8%	USP L19	100 x 7.8mm	BL0015
	BP-800-Ca	Calcium	9µ	8%	USP L19	250 x 4.6mm	BL0016
	BP-800-Ca	Calcium		8%	USP L19	Guard 50 x 4.6mm*	BL0020
	BP-100-Na	Sodium	9µ	6%	USP L58	300 x 7.8mm	BL0032
	BP-100-Na	Sodium		6%	USP L58	Guard 50 x 4.6mm*	BL0033
	BP-800-Na	Sodium	9µ	8%	USP L58	300 x 7.8mm	BL0034
	BP-800-Na	Sodium		8%	USP L58	Guard 50 x 4.6mm*	BL0035
	BP-100-Pb	Lead	9µ	6%	USP L34	300 x 7.8mm	BL0036
	BP-100-Pb	Lead	9µ	6%	USP L34	250 x 4.6mm	BL0039
	BP-100-Pb	Lead		6%	USP L34	Guard 50 x 4.6mm*	BL0040
	BP-800-Pb	Lead	9µ	8%	USP L34	300 x 7.8mm	BL0041
	BP-800-Pb	Lead	9µ	8%	USP L34	250 x 4.6mm	BL0044
	BP-800-Pb	Lead		8%	USP L34	Guard 50 x 4.6mm*	BL0045
	BP-100-K	Potassium	9µ	6%	-	300 x 7.8mm	BL0046
	BP-100-K	Potassium		6%	-	Guard 50 x 4.6mm*	BL0047
	BP-100-Ag	Silver	9µ	6%	-	300 x 7.8mm	BL0048
	BP-100-Ag	Silver		6%	-	Guard 50 x 4.6mm*	BL0049
Carbohydrate & Organic Acid	BP-100-H	Hydrogen	9µ	6%	USP L17	300 x 7.8mm	BL0021
	BP-100-H	Hydrogen	9µ	6%	USP L17	150 x 7.8mm	BL0022
	BP-100-H	Hydrogen	9µ	6%	USP L17	150 x 2.0mm	BL0024
	BP-100-H	Hydrogen		6%	USP L17	Guard 50 x 4.6mm*	BL0025
	BP-800-H	Hydrogen	9µ	8%	USP L17	300 x 7.8mm	BL0003
	BP-800-H	Hydrogen	9µ	8%	USP L17	150 x 7.8mm	BL0026
	BP-800-H	Hydrogen	9µ	8%	USP L17	250 x 4.6mm	BL0027
	BP-800-H	Hydrogen	9µ	8%	USP L17	150 x 2.0mm	BL0030
	BP-800-H	Hydrogen		8%	USP L17	Guard 50 x 4.6mm*	BL0031
Organic Acid	BP-OA	Hydrogen	9µ	8%	USP L17	300 x 7.8mm	BL0053
	BP-OA	Hydrogen	9µ	8%	USP L17	100 x 7.8mm	BL0055
	BP-OA	Hydrogen	9µ	8%	USP L17	250 x 4.6mm	BL0056
	BP-OA	Hydrogen	9µ	8%	USP L17	150 x 4.6mm	BL0057
	BP-OA	Hydrogen		8%	USP L17	Guard 50 x 4.6mm*	BL0059

For other column dimensions please contact your Sepachrom representative

*Guards are packed with >9µ beads

Fermentation Analysis



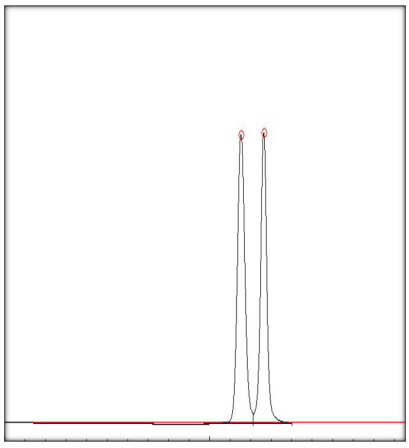
Part.No **BL0003**
BP-800 H 300x7.8mm

Analysis Conditions:

Eluent : 0.001 N H_2SO_4
Flow Rate : 0.6 ml/min
Detector : UV 210 nm
Temperature : 50°C

Sample:
1. Maltose : 8.03 min
2. Glucose : 9.29 min
3. Fructose : 9.98 min
4. Succinic Acid : 11.71 min
5. Glycerol : 12.43 min
6. Lactic Acid : 13.21 min
7. Acetic Acid : 14.84 min
8. Ethanol : 21.11 min

Trehalose Analysis



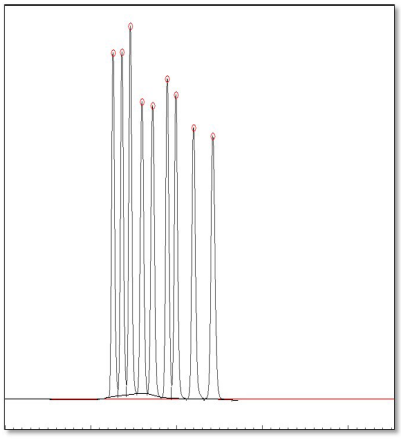
Part.No **BL0004**
BP-100 Ca 300x7.8mm

Analysis Conditions:

Eluent : DDI H_2O
Flow Rate : 0.4 ml/min
Detector : Refractive Index
Temperature : 80°C

Sample:
1. Maltotriose: 11.50 min
2. Trehalose : 12.61 min

Complex Sugar and Sugar Alcohol Analysis



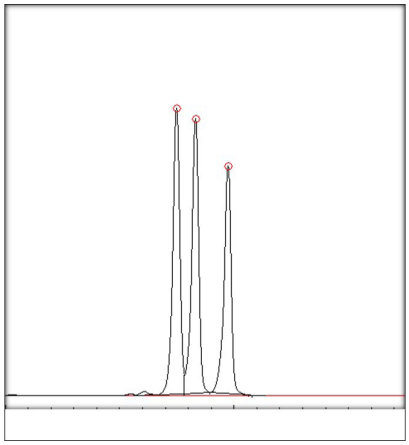
Part.No **BL0004**
BP-100 Ca 300x7.8mm

Analysis Conditions:

Eluent : DDI H_2O
Flow Rate : 0.4 ml/min
Detector : Refractive Index
Temperature : 80°C

Sample:
1. Maltotriose: 12.54 min
2. Maltose : 13.58 min
3. Lactulose : 14.55 min
4. Glucose : 15.91 min
5. Xylose : 17.15 min
6. Arabinose : 18.86 min
7. Ribitol : 19.86 min
8. Arabitol : 21.92 min
9. Xylitol : 24.16 min

DP4, DP3 and DP2 Analysis



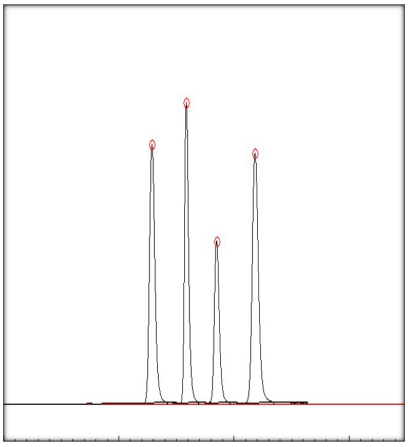
Part.No **BL0032**
BP-100 Na 300x7.8mm

Analysis Conditions:

Eluent : DDI H_2O
Flow Rate : 0.5 ml/min
Detector : Refractive Index
Temperature : 80°C

Sample:
1. Maltotetraose : 7.45 min
2. Maltotriose : 8.29 min
3. Maltose : 9.71 min

Sugar Alcohol Analysis



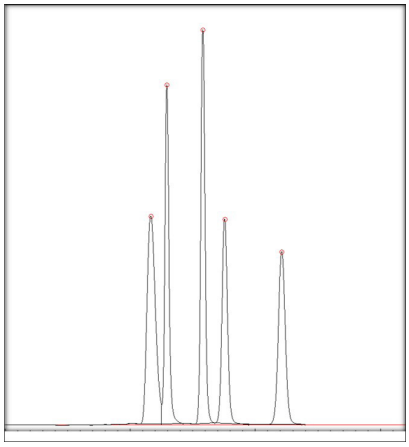
Part.No **BL0013**
BP-800 Ca 300x7.8mm

Analysis Conditions:

Eluent : DDI H_2O
Flow Rate : 0.6 ml/min
Detector : Refractive Index
Temperature : 80°C

Sample:
1. meso-Erythritol : 12.82 min
2. Maltitol : 15.81 min
3. Arabitol : 18.43 min
4. Galactitol : 21.77 min

Inositol Analysis



Part.No **BL0013**
BP-800 Ca 300x7.8mm

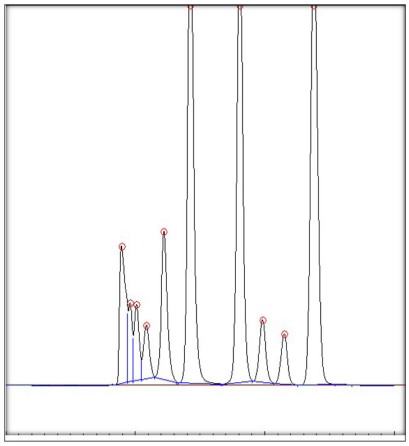
Analysis Conditions:

Eluent : DDI H_2O
Flow Rate : 0.6 ml/min
Detector : Refractive Index
Temperature : 85°C

Sample:
1. Mannose : 11.61 min
2. myo-Inositol: 12.89 min
3. Glycerol : 15.77 min
4. Mannitol : 17.51 min
5. Sorbitol : 22.07 min

Carbohydrates and Organic Acid Applications

Beer Analysis



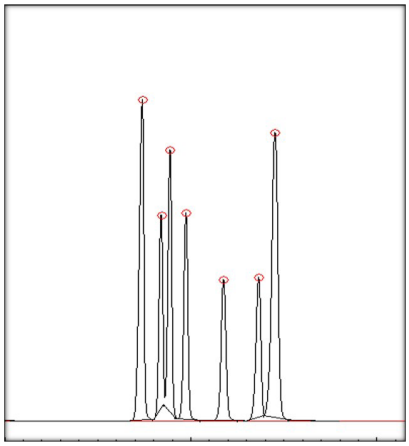
Part.No **BL0048**
BP-100 Ag 300x7.8mm

Analysis Conditions:

Eluent : DDI H_2O
Flow Rate : 0.4 ml/min
Detector : Refractive Index
Temperature : 90°C

Sample : Beer
Total Analysis Time 23.73 min
(Ethanol)

QC Test BP-800 H



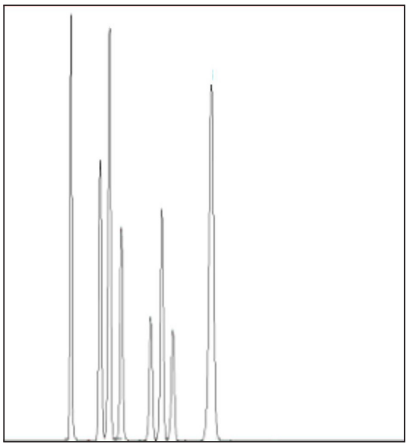
Part.No **BL0003**
BP-800 H 300x7.8mm

Analysis Conditions:

Eluent : 0.01 N H_2SO_4
Flow Rate : 0.6 ml/min
Detector : UV 210 nm
Temperature : 35°C

Sample:
1. Oxalic Acid : 7.34 min
2. Citric Acid : 8.35 min
3. Tartaric Acid : 8.83 min
4. Malic Acid : 9.69 min
5. Succinic Acid : 11.70 min
6. Formic Acid : 13.59 min
7. Fumaric Acid : 14.47 min

Organic Acid Analysis



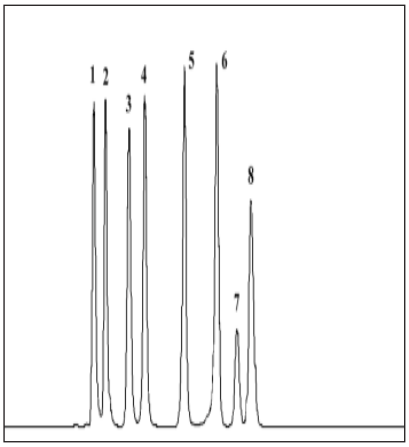
Part.No **BL0053**
BP-OA 300x7.8mm

Analysis Conditions:

Eluent : 0.10% H_3PO_4
Flow Rate : 0.5 mL/min
Detector : UV 210 nm
Temperature : Ambient

Sample: 20µL - 30mg/mL
1. Oxalic Acid
2. Citric Acid
3. Tartaric Acid
4. Malic Acid
5. Succinic Acid
6. Formic Acid
7. Acetic Acid
8. Fumaric Acid

Sugars and Organic Acid Analysis



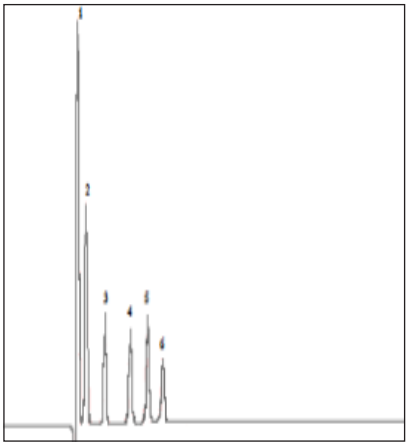
Part.No **BL0021**
BP-100 H 300x7.8mm

Analysis Conditions:

Eluent : DI H_2O
Flow Rate : 0.4 ml/min
Detector : Refractive Index
Temperature : Ambient

Sample: 20 ul, 30 mg/ml
1 – Maltotriose
2 – Maltose
3 – Glucose
4 – Fructose
5 – Glycerol
6 – Acetic Acid
7 – Methanol
8 – Ethanol

Organic Acid Analysis



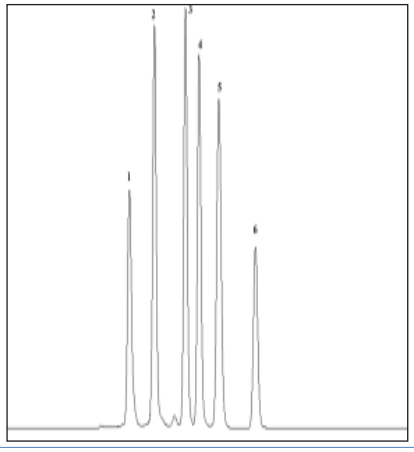
Part.No **BL0053**
BP-OA 300x7.8mm

Analysis Conditions:

Eluent : 0.003 N H_2SO_4
Flow Rate : 0.5 ml/min
Detector : Conductivity
Temperature : Ambient

Sample: 20 ul, 30 mg/ml
1 – Oxalic Acid
2 – Maleic Acid
3 – Malic Acid
4 – Succinic Acid
5 – Formic Acid
6 – Acetic Acid

Sugar Analysis



Part.No **BL0036**
BP-100 Pb 300x7.8mm

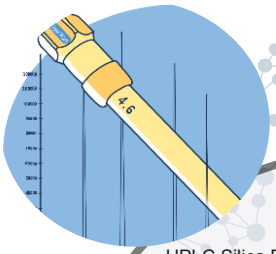
Analysis Conditions:

Eluent : DDI H_2O
Flow Rate : 0.4 ml/min
Detector : Refractive Index
Temperature : 90°C

Sample: 20 ul, 30 mg/ml
1 – Stachyose
2 – Maltose
3 – Xylose
4 – Galactose
5 – Mannose
6 – Glycerol

SepaChrom

Other products available from SepaChrom



HPLC

HPLC Silica Based Columns for Routine Analysis

HPLC & UHPLC Silica Based Columns for Small Molecules Separation

HPLC Silica Based Columns for Large Molecules Separation

HPLC Silica Based Columns for Traditional Chinese Medicine

Polymer Base Columns for Carbohydrate & Organic Acids Analysis Chiral HPLC Columns

Ion Chromatography Columns for Anions and Cations Analysis

ROBUSTA

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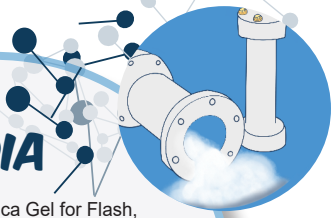
TCM

MEDIA



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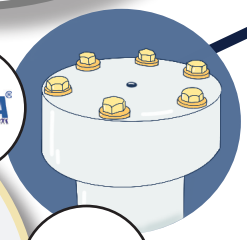
Raw & Bonded Silica Gel for Any Application Wide Range Porosity (30Å- 2500Å) and Particle Size (10µ-200µ)

Polymer Based Resin for Reversed Phase and Ion Exchange Chromatography



ROBUSTA

PREP

10mm - 50mmID Packed Preparative Columns for Lab Scale Purification packed by SepaChrom

50mm - 2000mmID Process Scale Chromatography Columns & Systems, Flanged & DAC Technology

OEM Packed Preparative Columns

Scale-up Method Development & Custom Packing Service

Adamas

VYdamas

FLASH

Instruments for Flash and Prep Chromatography up to 825mL/min & 400 bar pressure

Integrated ELSD & MS Simple Quad Detector for Flash Purification

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A Complete Range of Flash Columns for All Existing Flash Instruments

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SPE

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PuroPhase™ Polymer Base SPE Cartridges for Clinical & Forensic Applications.

Maxi-Clean™ Ion Chromatography SPE Cartridges

Vydac® - Bioselect SPE Cartridges for Biological Samples

Accessories for SPE & Syringe Filters

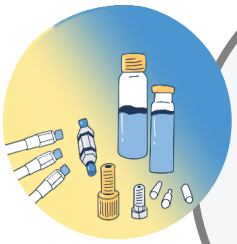
OTHER INSTRUMENTS

SepaChrom Hydrogen, Nitrogen and Air Generators for GC

SepaChrom Nitrogen Generators for LC-MS

Automated Sample Evaporators for Lab Scale Purification

Interchim Advion CMS Compact Mass Spectrometer Detector



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