

## Interchim \*, already more than 50 years at your service

Interchim SAS is a company with subsidiaries on 5 continents and its own distribution network. Founded in 1970, the company has many years of experience and knowledge in the field of synthesis, the life sciences, as well as chromatography, separation, purification, identification and characterisation.

As far back as 1990, as pioneers in the market, we introduced one of the first spherical silicon dioxides with small granulometry, which revolutionised the analytical and preparative liquid chromatography.

Following our great success in the early 2000s, we developed the concept of "Ultra Performance Flash Purification", becoming the first company to produce cartridges for Flash Chromatography on the basis of spherical silicon dioxide and small granulometry to obtain even more powerful separations, even greater loading capacity, even better recoveries and even more unparalleled reproducibility.

In 2008, we took an even more important step forward with the development and manufacture of instruments with which the flash cartridges and preparative columns could be used even more efficiently. These innovative instruments can reach a flow rate of up to 300 mL/min and pressure of up to 400 bar, offering incredible accuracy and reproducibility. We incorporate these instruments into integrated solutions for multi-detection systems (Mass, ELSD, UV-dad, IR ...) as well as in systems for increasing productivity in laboratories (CarouXel) - control of 10 columns, AutoSampler, 5X, ...). Their success is worldwide and they are available from our subsidiaries or our dealers.

In 2018, we have been surpassing ourselves by using the (patent protected) artificial intelligence "Genius" in our instruments. Since reading the TLC plate, it has never been easier and more intuitive to achieve the best possible separations in flash and prep and to transfer methods of the analytical LC to the preparative and increase the productivity without reservation.

With our selection of puriFlash® instruments, our Artificial Intelligence "Genius"™, our Flash Chromatography Interchim® puriFlash® cartridges as well as our analytical and preparative HPLC columns Interchim® Uptisphere® puriFlash®, the Flash chromatography and preparative purification, are accessible to all who want to achieve expert results.

For more information, visit www.interchim.com and www.flash-chromatography.com.

## **Contact us**

You need advice to choose the best product suitable to your needs?

Our scientific experts are here to share both their knowledge and expertise and advise you.

Please feel free contact us.

## **Live Demo**



Our team are a also pleased to present and demonstrate our products to you in live.

Let's arrange a personal appointment!

## How to place your orders

Always attentive to your different needs, Interchim® offer four solutions to quickly and easily order your products.

#### By Phone:

+33 4 70 03 88 55

Chemicals Hotline: +33 4 70 03 73 01

#### By Mail:

INTERCHIM 211 bis Avenue J.F Kennedy - BP 1140

03103 Montluçon cedex - France

#### By Email:

interchim@interchim.com flashpurification@interchim.fr

#### Online:

www.interchim.com www.flash-chromatography.com

6 Interchim and Advion led the market by being the first to develop integrated Flash-MS and seamlessly coupling Advion's high performance expression® Compact Mass Spectrometer with Interchim's puriFlash® purification systems.



## Get a LC purification platform as unique as your work! Customize it and make yours the puriFlash® 360° now



#### Key features:

- . Simplexity: Powerful features but easy to use
- . Concentrated of technologies in a minimum of space that improve the Chemists sphere of use
- . Easy Accessibility of multi-profile users with a minimum of training thanks to InterSoft®X software.

#### Low to high pressure LC purification of small & large molecules with 3X detection UV, ELSD & MS

The puriFlash® 360° LC Purification Platform combines Simplexity & Best-in-Class design to make Chemists purifications by liquid chromatography easier, intuitive & productive. No matter what is your own expertise level, the platform piloted by InterSoft®X, with Genius our embedded artificial intelligence, allows routine to sophisticated RP purification of small organics, natural products, peptides & proteins. You can stay focused on your job with the necessary peace of mind while having the certainty to get the best purification as possible. There is no risk of product loss thanks to the full monitoring of the system through sensors, the management of overpressures and pauses. The platform runs 24/7 with Confidence for a minimum of After Sales Service required.

Small, but Mighty the puriFlash® XS 520 Plus with its specification able to run 300 ml/min @ up to 20 bar is the ideal entry system for routine NP purification of small organics. The puriFlash® 5.250, with up to 250 bar, as for it, offers a second dimension to enlarge the separation potential to isolate safely high value compounds.

Discover it in video

#### **Ultra Performance Flash Purification**



## puriFlash®XS 520Plus

#### Small but mighty

Concentrated technology for unmatched performance.

Designed for routine flash purifications, the technology and unique quality of the pump will take you much further. Increase the pressure, the puriFlash® XS 520Plus will nevertheless offer precision, linearity and repeatability and allows you to perform complex and sophisticated purifications.

Small Organic molecules Impurities Identification Natural Products

Peptides, Oligonucleotides Proteins, Bio-drugs Metabolites Isolation Traces Enrichment

No matter whether you're an expert or not, Genius will support you to achieve the best purification possible.



Get more information or configure yours now

## Accuracy & Repeatability

up to 80mm i.d. Col

## puriFlash<sup>®</sup>5.250

#### Small but limitless

Maximum Versatility and Flexibility.

The system brings a unique performance in all circumstances. It adapts to all needs from routine purification to complex mixtures, impurity separation, or trace enrichment.

Proteins, Bio-drugs Metabolites Isolation Traces Enrichment

It is continuously ready to start multiple purifications in normal or reverse phase, flash or prep.









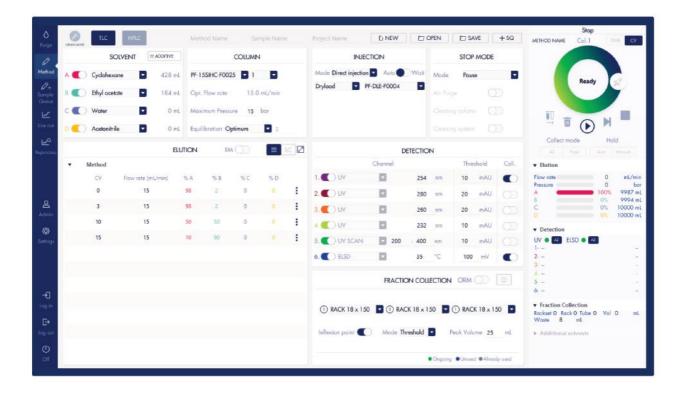


P/N: PFG5E0

Get more information or configure yours now

## Software, AI & Smart App'

## Intersoft®X



- . Accessibility of multi-profile users with minimum training
- . Best-in-class design that makes the chemist's life easier.
- . Challenge Genius, your Personal Artificial Intelligence, to develop the purification method, or do it yourself
- . "Push the boundaries" with the intuitive Flash&Go, Load&go and Boost&Go technologies

## Genius

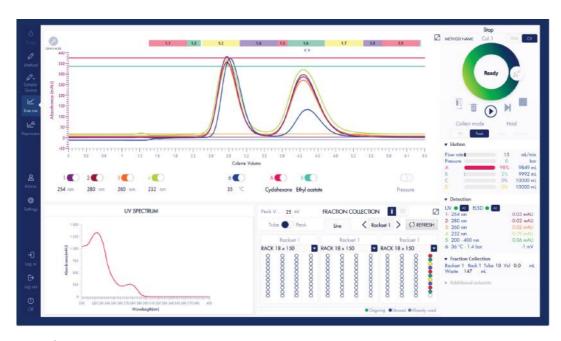
Whatever your sample, from any of NP-TLC, NP-LC, NP-LC screening, RP-LC, RP-LC screening experiments, Genius, your Personal Artificial Intelligence embedded in InterSoft® X, generates the best possible purification method in current knowledge.

Safely run the method and get your products pure!

Discover more about our technologies on our dedicated website

# Advion × 1 Interchin

#### Keeps Intelligence Simple, Smart





Flash your TLC plate using our mobile app., send the data automatically to InterSoft®X "Genius". You are set to run the purification.



Load your sample liquid or sold though multi-way electrical valve. InterSoft® X "Genius" will manage column equilibration for you, sample manage column equilibration for you, sample loading and system cleaning.



Intelligent management of the flow rate increase to safely speed up the purification.



Flash & Prep columns, dry-loads, racks, loops identification & data implementation into Genius.





#### Augmented reality for a greatly improved daily routine.

In our capacity as experts for purification, we aim to offer maximum working comfort as well as the highest efficiency in your laboratory.

Thanks to the app that we have developed, we can share your future vision by constantly providing new technology solutions. It takes a digital form here, virtual but already real on the screen of your mobile or tablet.

#### A unique technology that slides through your fingers with one single click.

Our idea is to support you and to save you time day by day. Therefore our App allows for:

- Our goal is to support you and to save you time day by day. Therefore, our app allows for:
- Automatic detection of your compounds and calculation of your Rf and ΔCV (=ΔK) values
- Direct (and secure) information transfer to puriFlash® and the "Genius" software, which suggests the best method for a successful purification
- Data archiving, if desired.



#### Flash & Go: « New TLC.»

The application is extremely intuitively and user-friendly:



Take a picture of the TLC with your smartphone or download it from your library.



Your compounds will be detected automatically. Select the ones of interest with a tap.



The application calculates Rf and  $\Delta CV$  (=  $\Delta K$ ). It indicates if the Rf are placed in the comfort zone to carry out your purification.



From the smallest ΔCV obtained on your TLC plate, the application gives you the level of difficulty of the separation.



Indicate the solvents, their proportions and your comments in the dedicated areas.



Save your TLC plate information. Send them to the email address of your choice or directly to your puriFlash® by bluetooth or wifi: the "Genius" software will recommend the best method for a successfull purification.



#### « MYTLC » for the retention of data

All information of your previous TLC plates are archived in a single location. In case you would like to reuse the parameters of the plate for a new separation, simply send them to any puriFlash® with a single click.



#### « SETTINGS » to personalize your experience

Connect your smartphone and Tablet with your puriFlash® via bluetooth or Wifi. Configurate your application according to your preferences. Quickly and directly access our internet sites.

#### You need a tablet or smartphone to benefit from our application in your laboratory?

Nothing more simple: Select your choice from the accessories offered for all our purification systems in the configurator.



"TLC to Flash & Prep Chromatography" is a free application. Our wish was to enable everybody to use it freely. You can even use it if you do not possess a puriFlash® purification system. Nevertheless, your experience as an user may be reduced since our systems are equipped with a unique technology that allows for data exchange only within these systems. Therefore you cannot equally benefit from the "Genius" proposals with regard to the best methods for your purification. However, it is never too late to opt for excellence and discover our purification systems.

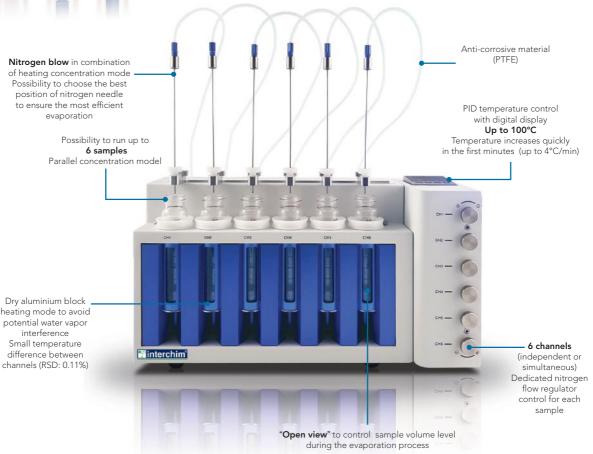
## Peripheral detection & production devices

## puriVap-6™

#### Compact Evaporator Simple & Smart - 6 positions

- 6 channels to run up to 6 samples (independent or simultaneous)
- Sample volumes from 2mL up to 60mL
- PID temperature control with digital display up to 100°C
- Temperature increases quickly in the first minutes (up to 4°C/min)
- Dedicated nitrogen flow regulator control for each sample
- Nitrogen blow in combination of heating concentration mode
- Possibility to choose the best position of nitrogen needle to ensure the most efficient evaporation





Get more information or configure yours now

## puriFlash<sup>®</sup>MS

#### Mass triggered fraction collection for NP & RP Flash Purification & prep-LC

#### Unique Interchim® design Dynamic split & dilution:

- High-speed work with all columns sizes without generating backpressure
- Integrated post-split dilution to adjust the concentrations used in the MS source (no concentration limit no signal saturation)
- Normal & Reverse Phase
- Intelligent Pilot of the puriFlash® system
- Normalized Scale signals MS, UV, ELSD (6 acquisition signals)



	puriFlash® MS	puriFlash® MS-HMW
	for small molecule, synthetic organic chemists.  Upgraded specs for pos/neg switching, faster scanning & higher flow rate	for large molecules - peptide synthesis, polymer chemistry & natural products
Sources:	APCI - (ESI option)	APCI or ESI
Patented API:	orthogonal ion sampling from heated capillary allows for small single turbo pump.	orthogonal ion sampling from heated capillary allows for small single turbo pump.
Positive/Negative Ionization	Simultaneous Analysis	Simultaneous Analysis
Flow rate range ESI	10μL/min - 1mL/min	10µL/min - 1mL/min
Flow rate range APCI	10µL/min - 2mL/min	10µL/min - 2mL/min
mass range (m/z)	10 to 1200	10 to 2000
Scan rate (m/z-units per second)	10000	10000
Resolution (m/z-unites FWHM)	0.5 - 0.7	0.5 - 0.7
Sensitivity (SIM - S/N de 10 pg Reserpine, FIA 5µl injection à 100µl/min)	100:1	100:1
Accuracy (m/z)	0.1	0.1
Stability (m/z-units per 24 hour period: 18 - 24 °C)	0.1	0.1

Get more information or configure yours now

## Peripheral detection & production devices

## **Advion**



#### The industry's widest range of sample introduction techniques





Thin-layer chromatography (TLC) is a routine, reliable method used in most chemistry laboratories, but traditional visualization techniques give no structural information on the TLC

spots. Mass Spectrometry is a powerful technique for identifying spots, but traditional, manual steps involving scraping spots from the plate, extraction in suitable solvents and finally reconstitution in solvent appropriate for injection into the mass spectrometer (MS), make obtaining spectra difficult and time consuming. The Plate Express is a device that provides a simple, automated means of obtaining mass spectra directly from TLC plates.

With the Advion Plate Express you can:

- Identify spots in <1 minute
- Avoid the risk of overloading the mass spectrometer
- TLC spots contain the ideal amount of sample for mass spectrometry
- Simplify the process of obtaining spectra
- Ideal for multi-user labs
- Software controlled spectra obtained within a few mouse clicks
- No scraping TLC spots

#### Discover the plate express in video



The direct atmospheric solids analysis probe, otherwise known as ASAP, permits chemists fast and reliable sample analysis of liquid and solid samples such as reaction mixtures, food samples, natural products and tablets.

The Advion ASAP probe offers:

- No sample preparation
- No chromatography
- Fast and affordable sample analysis
- Solvent-free APCI
- Green practices without the need to buy and dispose of solvent
- lonizes a wider range of compounds

#### iASAP Inert ASAP Probe

The inert ASAP (iASAP) is a modification of the ASAP technique, allowing easy sampling of air-sensitive compounds, such as metal catalysts and organometallics, from reactions that are carried out in a glove box or Schlenk line to prevent oxidation.



## Advion



#### Easy, prep-free sampling for a range of liquid and solid samples









#### **OPSI Open Port Sampling Interface**

The Touch Express Open Port Sampling Interface (OPSI), is designed for simple sampling of solids, liquids and sample preparation tips and fibers. Any soluble sample touching the port is analyzed by the mass spectrometer in mere seconds.

The OPSI source is a unique, prep-free sample technique that offers:

- Compound ID and impurity detection from almost any surface
- Direct assays from sample preparation tips and SPME fibers
- Easy screening applications for drug research, food safety. environmental, forensics
- Large molecule applications including proteins, peptides, oligonucleotides and polymers

#### Discover the OPSI in video

#### **vAPCI** Volatile APCI Source

vAPCI combined with the expression CMS is a fast and easy method to quickly and confidently analyze compounds in air, breath, headspace and other gas samples without the need for additional sample preparation. vAPCI provides a sample inlet linked by a heated transfer line to the APCI ion source of the CMS, where the sample is ionized by chemical reaction by a corona discharge.

vAPCI enables chemists to:

- Analyze samples directly in the gas phase
- Solvent-free APCI allows a greater range of compounds to be ionized compared to traditional APCI ion sources.

#### **Direct Injection & FIA Flow Injection Analysis**

Simple, direct injection valve offers users the ability to quickly and easily analyze reaction mixtures by direct injection/flow injection analysis. Both the APCI and ESI sources can receive samples for flow injection analysis.

## **Columns & Dry-Load**

## **The Essential Stationary Phases for Purification**

#### **Normal Phase**



#### puriFlash® IR-SI

60Å - 450m²/g 20 & 40/63µm pH stability: 1.5 to 6.5 *Economical* 



#### puriFlash® SI-HP

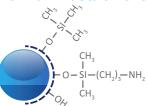
60Å - 500m²/g 5, 10, 15, 30 & 50µm pH stability: 1.5 to 6.5 *High efficiency* 



#### puriFlash® SI-HC

60Å - 680m²/g 15, 25 & 50µm pH stability: 1.5 to 6.5 Greater loading capacity & productivity Low back pressure

#### Normal Phase/Ion exchange

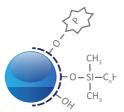


#### puriFlash® NH2

100Å - 300m²/g 5, 10, 15, 30 & 50 μm Amino %C: 4 End-capping: One-step pH stability: 2 to 6.5 Can be both a weak anion exchanger for strong

Can be both a weak anion exchanger for strong acids or a polar phase that can interact with the OH, NH, SH... functions.

#### Reverse



#### puriFlash® RP-AQ

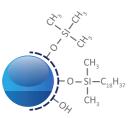
60Å - 500m²/g 15 & 30µm RP-alkyl %C: 6 End-capping: Mixte pH stability: 2.0 to 7.5

The bonding chemistry makes it possible to start the gradient at a 100% water. Suitable for the separation and purification of strongly and moderately polar molecules. Compared to a C18, the peaks are eluted earlier from the beginning of the gradient.

# CH<sub>3</sub> I O-SI-C<sub>18</sub>H<sub>37</sub> CH<sub>3</sub> CH<sub>3</sub>

#### puriFlash® C18-AQ

100Å - 300m²/g
5, 10, 15 & 30µm
C18 Mono-functional
%C: 14
End-capping: Mixte
pH stability: 2.0 to 7.5
The bonding chemistry makes it possible to start the gradient at a 100% water
Suitable for the separation and purification of moderately polar and non-polar molecules.

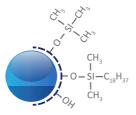


#### puriFlash® C18-HP

5, 10, 15, 30 & 50 µm

100Å - 300m<sup>2</sup>/g

C18 Mono-functional %C: 16,5
End-capping: One-step
pH stability: 1.5 to 7.5
Suitable for multiple pharmaceutical applications.
This is an excellent choice for routine reverse phase purifications.



#### Uptisphere<sup>®</sup> Strategy™ C18-HQ

100Å - 425m²/g 1.7, 2.2, 3, 5, 10, 15µm C18 Mono-functional %C: 19 End-capping: Multi-step pH stability: 1.0 to 10.0 Suitable for many pharmaceutical applications and routine methods. Its specific surface area of 425m²/g

gives it a high loading capacity



#### puriFlash® C18-XS

100Å - 300m²/g 5, 10, 15 & 30µm C18 Mono-functional %C: 17 End-capping: Multi-step pH stability: 1 to 10.0 The proprietary end-capping multi-step technology

ensures stability under high pH conditions, up to 10. It is an excellent phase for the complete separation of basic molecules.

Find all the references available in our main catalog "ULTRA PERFORMANCE"

Spherical silica and irregular silica: what differences? Read our article

# dvion × Finterchim

## puriFlash® Dry-Load

#### Solid Sample



Dry-load columns for solid deposits allow the injection of a raw sample insoluble (or soluble) in the mobile phase.

Compared to liquid injection, the solid deposit avoids the diffusion of raw sample in the purification column. It improves resolution, efficiency and purity of the products collected.

The solid deposit can be made with silica, C18 or Celite. Unlike open cartridges, it does not require the use of a piston or specific adapters. The max. pressure is 2x the standard solid deposit cartridges.

They are compatible with the use of Interchim® 15 $\mu$ m puriFlash® columns.

- Compatible with all purification systems

#### puriFlash® Dry-Load

Nature	Туре	Format	P/N	Qty
puriFlash® Dry-Load	Empty	F0004	PF-DLE-F0004	20u
		F0012	PF-DLE-F0012	20u
		F0025	PF-DLE-F0025	20u
		F0040	PF-DLE-F0040	20u
		F0060	PF-DLE-F0060	10u
		F0080	PF-DLE-F0080	5u
		F0100	PF-DLE-F0100	5u
		F0120 F0220	PF-DLE-F0120 PF-DLE-F0220	5u 5u
		F0220	PF-DLE-F0330	5u 5u
			F1-DLL-1 0330	
puriFlash® Dry-Load -	Tightening	tool	JV0470	1u
puriFlash® Dry-Load	SILICA	F0004	PF-DLSIHC08-F0004	20u
	HC 80%	F0012	PF-DLSIHC08-F0012	20u
		F0025	PF-DLSIHC08-F0025	20u
		F0040	PF-DLSIHC08-F0040	20u
puriFlash® Dry-Load	SILICA	F0004	PF-DLSIHC05-F0004	20u
	HC 50%	F0012	PF-DLSIHC05-F0012	20u
		F0025	PF-DLSIHC05-F0025	20u
		F0040	PF-DLSIHC05-F0040	20u
puriFlash® Dry-Load	CELITE	F0004	PF-DLCET08-F0004	20u
	80%	F0012	PF-DLCET08-F0012	20u
		F0025	PF-DLCET08-F0025	20u
		F0040	PF-DLCET08-F0040	20u
puriFlash® Dry-Load	C18	F0004	PF-DLIRC1808-F0004	5u
	STD	F0012	PF-DLIRC1808-F0012	5u
	80%	F0025	PF-DLIRC1808-F0025	5u
		F0040	PF-DLIRC1808-F0040	5u
puriFlash® Dry-Load	C18	F0004	PF-DLIRC1805-F0004	5u
-	STD	F0012	PF-DLIRC1805-F0012	5u
	50%	F0025	PF-DLIRC1805-F0025	5u
		F0040	PF-DLIRC1805-F0040	5u

#### **High-Pressure Dry-Load**

Nature	Type	Size	P/N	Qty	
puriFlash® HP Dry-Load	Empty	50 x 21.2mm	OA0320	1u	
		75 x 21.2mm	OA0330	1u	
		100 x 21.2mm	7A1870	1u	
		50 x 30mm	OA0340	1u	
		75 x 30mm	OA0350	1u	
		100 x 30mm	7A1880	1u	
puriFlash® Dry-Load - Tightening tool					
Spanner wrench for 21.2mm ID			7A1590	1u	
Spanner wrench for 30mm ID			7A1610	1u	
Replacement frit					
Replacement frit for 21.2m		0A2100	1u		
Replacement frit for 30mm	ı ID		0A2110	1u	



Find all the Dry-Load available online here

How to make a solid deposit? Watch our tutorial

Interchim puriFlash® Columns

Interchim® offers more than 35 selectivities for the purification of small & bio-molecules.

#### **Key features:**

- . Our Ultra Pure Spherical Silica combined with our chemistry establishes optimized sample recovery and makes easier transfer from analytical to purification.
- . Interchim® Genius allows an easy transfer from any TLC or analytical data from any columns to "ready-to-go" and safe
- . Gradient Purification Method
- . RFID Traceability

### Selectivity / Purity → Capacity → Productivity



Code	F0001	F0004	F0012	F0025	F0040	F0080	F0120	F0220	F0330	F0800	F1600
Ø int. (mm)	9	12	21	21	27	31	36	60	60	78	104
L (mm)	26	68	84	133	135	205	224	153	226	341	385
CV <sub>0</sub> (mL)	1.2	5	19	32	48	102	153	269	405	1 078	2 170
Flowrate - Typical (mL/min)	2.5	5	15	15	26	34	46	127	127	216	383
Flowrate - Range (mL/min)	1 - 10	5 - 20	15 - 50	15 - 50	20 - 70	30 -100	40 - 150	80 - 300	80 - 300	150 - 300	200 - 500

Find all the references and their specifications available in our main catalog « ULTRA PERFORMANCE FLASH PURIFICATION »

## **Interchim® LC Preparative Columns**

Interchim® Preparative columns range from 10.0 to 50.8mm i.d and are for the purification of samples ranging from 0.5mg to 1 gram.

#### Column tubing & column packing

The tube polishing value (Ra) has a fundamental importance in preparative chromatography. A primary reason for broad peaks and low efficiency is the utilization of poor quality tubing. Molecules in the center of the mobile phase stream can move more rapidly than molecules closer to the side due to friction against the tubing surface. The lower the Ra value, the smoother the surface is, and the less 'drag' the tubing will place upon a given separation. Modulo-cart preparative columns pay particular attention to this potential negative phenomenon. All columns have extremely smooth internal surfaces (typically 8µ inch of Ra) to considerably reduce issues of drag and maintain column efficiency. Efficiency is also managed through Interchim®'s state-of-the art proprietary packing processes - Modulo-cart Prep can withstand packing pressures up to 550 bar contributing strongly to a good bed stability and column life.

#### Sample dispersion

The loading of sample onto a preparative column requires stringent management to establish quality separations. Column overloading results in a poor retention of pure fraction and therefore particular attention needs to be placed upon selecting the appropriate column dimension and the properties of the stationary phase. In addition, careful sample introduction control to the column is necessary to establish a homogeneous sample dispersion through the sorbent bead head. Sample typically enters a preparative column through a 1/16" fitting; poor sample loading will lead to overloading certain areas of the stationary phase whilst other areas will be underloaded. E.g. For a 50mm i.d column with a 500µm i.d capillary fitting - sample introduced to the column (without any sample distributor) will only interact with 0.01% of the surface column head. In addition to a dramatic loss in capacity there will also be a high potential for the column head to prematurely clog, rapidly reducing column life. To prevent this problem, Interchim®'s Modulo-cart Preparative columns are outfitted with a sample distributor. The sample distributor design maximizes the efficiency of sample volume dispersion and the sample mass introduced to the surface of the column head extending column life.



Find all the references and their specifications available in our main catalog 
« ULTRA PERFORMANCE FLASH PURIFICATION »

Or directly on our main website interchim.com

## **Application notes (example)**

## Purification of mixture using PF-15SIHP-F0025

#### 1. TLC method development



Mobile phase: 90% Dichloromethane / Methanol 10%



Mobile phase: 95% Dichloromethane / Methanol 5%



Mobile phase: 50% Petroleum Ether / Ethyl Acetate 50%



Mobile phase: 50% Petroleum Ether / Diethyl Ether 50%



Compound of interest



Mobile phase: 90% Dichloromethane / Methanol 10%

Compound of interest: compound 3

Compound	Rf	CV
1	0.49	2.04
2	0.43	2.33
3	0.34	2.94

0.22

4.54

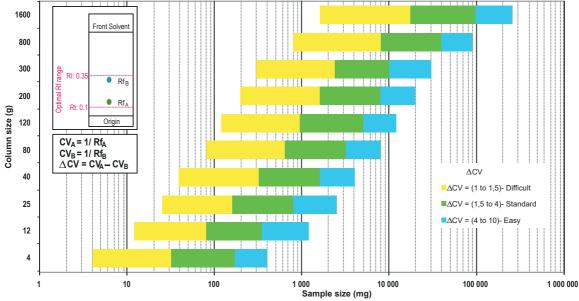
 $\Delta CV_{3,2} = 0.61$ 

#### 2. Choice of the column according to the $\triangle CV$ & crude sample mass

Close side products

Crude sample: 47mg Column: PF-15SIHP-F0025 Loading capacity: 0.25%

Loading Selection Guide for puriFlash® IR-50SI (Edition 2008-2017)



Customer has chosen to use a PF-15SIHP-F0025 column to obtain a better separation (efficiency & purity) than with a IR-50SI-F0025 column.

#### 3. Flash conditions

Device: puriFlash® XS 420Plus (or now puriFlash® XS 520Plus)

Solvents: A: Dichloromethane B: Methanol

Column: PF-15SIHP-F0025 Flow rate: 15mL/min

Injection mode: Liquid injection

Crude sample: 47mg

Detection: UV 254nm (black), UV Scan 230-400nm (orange)

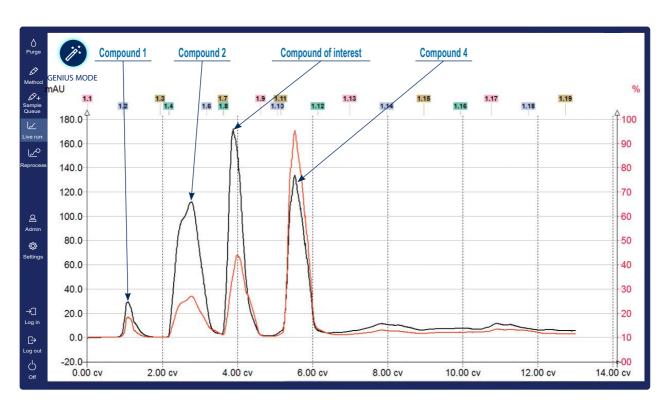
Mode: Automatic Gradient Optimization

Pressure: 1bar Elution conditions:

CV	A (%)	B (%)
0	98	2
1	98	2
11	90	10
13	90	10



puriFlash® XS 520Plus Small, but Mighty 300mL/min@up to 20bar



Access all our application notes by clicking here

## Ultra Performance Flash Purification



**puriFlash** XS 520Plus Small, but Mighty 300mL/min@up to 20bar



**puriFlash**® **5.020** The Partner of Daily Challenges 300mL/min@up to 20bar



**puriFlash**\* 5.050 Cross-over Flash /Prep 250mL/min@up to 50bar

## puriFlash®



**puriFlash**® **5.020**-5X Lab-Productivity 300mL/min@up to 20bar



puriFlash® 535-XL Process-Kilo-Lab 400mL/min@up to 35bar



**puriFlash** 5.015-XL Process - Kilo-Lab 825mL/min@up to 15bar

**Process Purification** 

## Ultra High Performance Purification



puriFlash<sup>®</sup>5.125 Complex Purifications with Confidence 250mL/min@up to 125bar



puriFlash<sup>®</sup>5.250 Small, but Limitless 250mL/min@up to 250bar



puriFlash<sup>®</sup>5.400 The Ultra-Purification 125mL/min@up to 400bar













puriFlash®5.125P The Peptides Specialist 250mL/min@up to 125bar



puriFlash®5.250P **Purification of Complex** Mixtures of Peptides 125mL/min@up to 250bar



**Ultra Performance Proteins Purification** 100mL/min@up to 50bar

Peptides & Proteins Purification



#### **ULTRA PERFORMANCE FLASH PURIFICATION**

2018-20 edition



www.interchim.com/UPFP-Gen5.php

Sharing a customer-focused, workflow-enhancement vision, Interchim SAS, a global provider of research, industry and life science chromatography instruments and analytical consumables, and Advion Inc., a leader in life science high performance mass spectrometry, leverage nearly a decade of partnership and more than 50 years of business history. The combined companies' global presence offers a single source for sample prep, systems, novel media, and consumables solutions. Seamlessly integrated for unrivaled workflow improvements, the flash and preparative chromatography and mass analysis of small and large molecules ensures customers benefit from bespoke solutions and world class customer support. Together, Interchim X Advion continue to develop, manufacture and support novel solutions with nearly 250 employees on three continents and more than 100 distributors serving the world.

For more information, visit advion.com, interchim.com and flash-chromatography.com.



211 Bis avenue JF Kennedy - BP1140 - 03100 Montluçon - France Phone +33 4 70 03 88 55 - Fax +33 4 70 03 82 60 interchim@interchim.com

www.interchim.com - www.flash-chromatography.com













61 Brown Road, Suite 100, Ithaca, NY, 14850 USA Phone +1-877-5-ADVION - info@advion.com www.advion.com







