

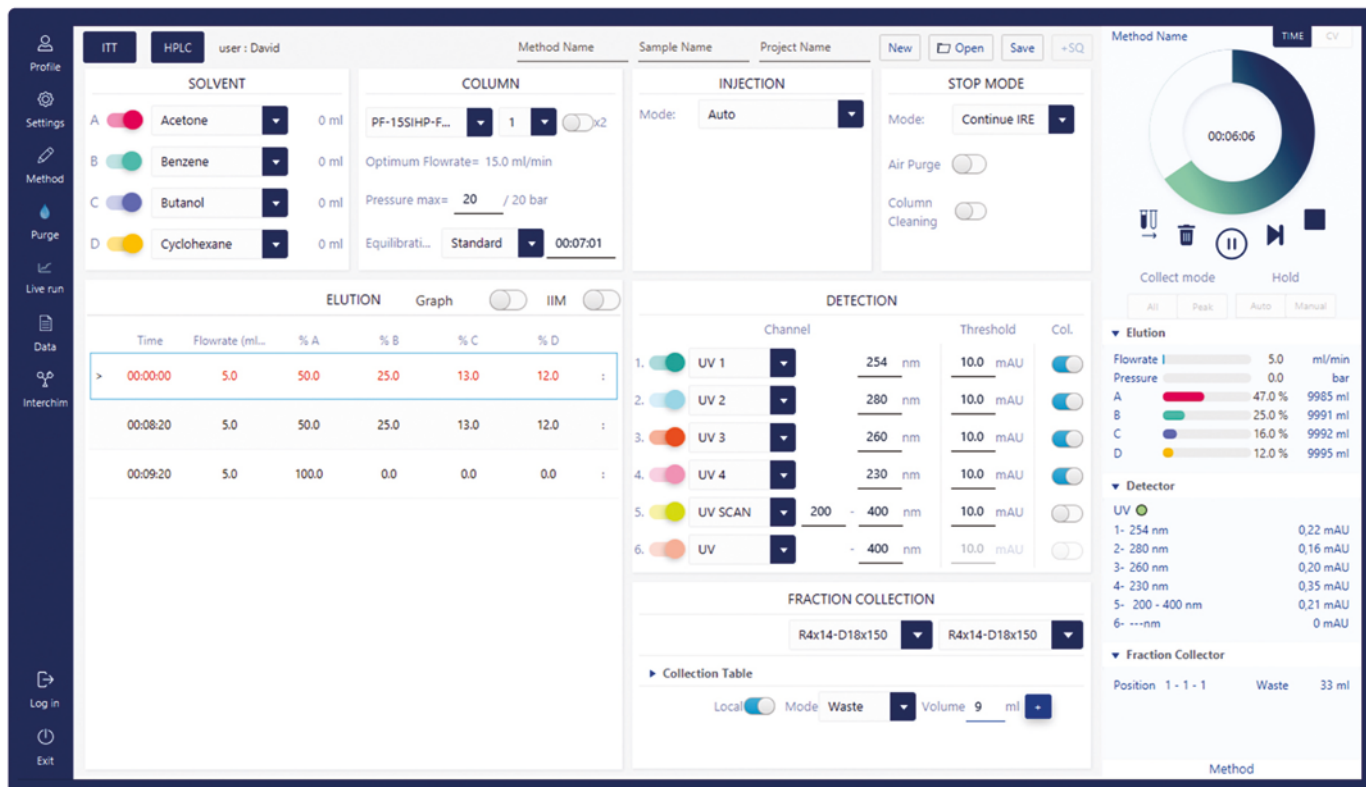


The Essential Systems & Consumables for High Performance LC Purification

 **interchim**[®]

ITM-20190830-F/P

InterSoft® X



- Accessibility of multi-profile users with a minimum of 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 by yourself
- "Push the boundaries" with Flash&Go, Load&Go and Boost&Go technologies intuitiveness

Genius

Whatever is 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 the current knowledge.
Run safely the method & Get your Products Pure!

Keeps Intelligence Simple, Smart



Flash&Go:

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



Load&Go:

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



Boost&Go:

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



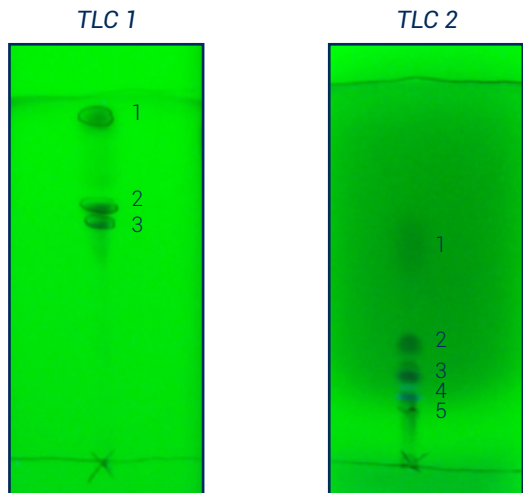
Flash & Prep columns, dry-loads, racks, loops identification & data implementation into Genius.



[Patent Application Pending]

Genius makes Easy & Secured Purifications

1. TLC method development



Mobile phase:
87% DCM / MeOH 13%

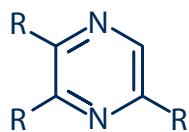
Compound	Rf	CV
1	0.95	1.05
2	0.68	1.47
3	0.64	1.56

$$\Delta CV_{3-2} = 0.09$$

Mobile phase:
90% Toluene / MeOH 10%

Compound	Rf	CV
1	0.57	1.75
2	0.31	3.23
3	0.25	4
4	0.18	5.56
5	0.14	7.14

Rf of compounds 2 and 3 are close, the separation will not be optimal on Flash column.
Genius provide new TLC conditions (TLC 2) in order to increase ΔR_f & ΔCV .



2. Genius proposal



Among the columns proposed by Genius, we have selected a PF-15SIHP-F0012, which was available in stock :

TLC to Flash & Prep (Normal Phase)

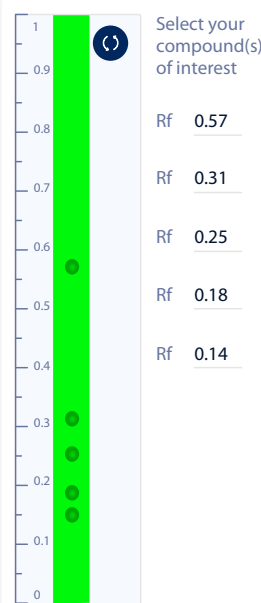
↑ UPLOAD

↺ RESET

Crude sample mg Additive

Solvent 1 %

Solvent 2 % Additive



Select your compound(s) of interest

Rf

Rf

Rf

Rf

Rf

SELECT A COLUMN

Column	Stock
PF-30SIHP-F0012	<input type="checkbox"/>
PF-15SIHP-F0012	<input checked="" type="checkbox"/>
PF-30SIHP-F0025	<input checked="" type="checkbox"/>
PF-30SIHP-F0040	<input checked="" type="checkbox"/>
PF-30SIHP-F0080	<input checked="" type="checkbox"/>
PF-30SIHP-F0120	<input checked="" type="checkbox"/>

Top 3 columns

INJECTION MODE

The crude is fully soluble in the below conditions:

Toluene 98.9%

Methanol 1.1%

Yes No

Liquid mL (max 1.66 mL)

Dry load

GO TO MANUAL METHOD

GO TO RUN



3. Flash conditions

Device: puriFlash® 5.020

Solvents: A: Toluene
B: Methanol

Column: PF-15SIHP-F0012

Flow rate: 15mL/min

Injection mode: Solid deposit with celite
(Dry-load F0004)

Crude sample: 100mg

Detection: UV 265nm

Pressure: 4bar

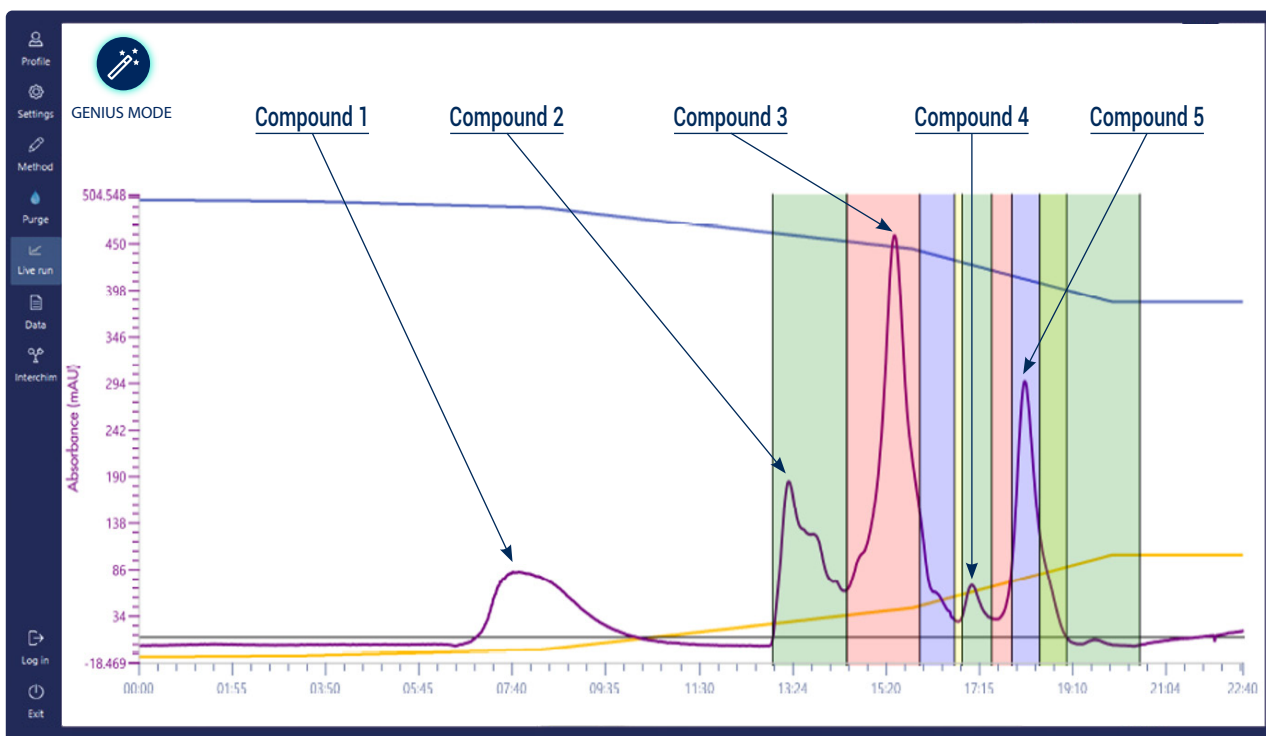
Elution conditions:

t (min)	A (%)	B (%)
00:00	98.9	1.1
03:27	98.6	1.4
08:17	97.3	2.7
15:52	88.4	11.6
20:00	77	23
26:13	77	23



puriFlash® 5.250

Small, but Limitless
250mL/min@up to 250bar



Ultra Performance Flash Purification



puriFlash® 5.020

The Partner of Daily Challenges
300mL/min@up to 20bar



puriFlash® 5.020-5X

Lab-Productivity
300mL/min@up to 20bar



puriFlash® 5.050

Cross-over Flash /Prep
250mL/min@up to 50bar



puriFlash® XS 520Plus

Small, but Mighty
300mL/min@up to 20bar

puriFlash®



Accuracy
& Repeatability

Flash
& Go

Load
& Go

Boost
& Go

NEW



puriFlash® 535-XL

Process-Kilo-Lab
400mL/min@up to 35bar

NEW



puriFlash® 5.015-XL

Process - Kilo-Lab
825mL/min@up to 15bar

Process Purification

Ultra High Performance Purification



puriFlash® 5.125

Complex Purifications with Confidence
250mL/min@up to 125bar



puriFlash® 5.250

Small, but Limitless
250mL/min@up to 250bar

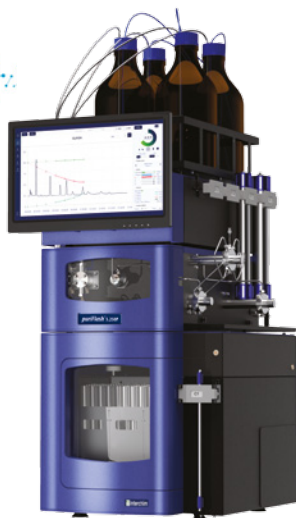


puriFlash® 5.400

The Ultra-Purification
125mL/min@up to 400bar



Peptides Purification



puriFlash® 5.250P

Purification of Complex
Mixtures of Peptides
125mL/min@up to 250bar



puriFlash® 5.125P

The Peptides Specialist
250mL/min@up to 125bar

Ultra Performance Flash Purification

puriFlash® XS 520 Plus

Small Organic molecules	★★★★★
Impurities Identification	★★★★☆
Natural Products	★★★★☆
Peptides, Oligonucleotides	★★★★☆
Proteins, Bio-drugs	★★★★☆
Metabolites Isolation	★★★★☆
Traces Enrichment	★★★★★

Small but mighty

A concentrate of 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 520 Plus will offer the same precision, linearity and repeatability and allows you to perform complex and sophisticated purifications.

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

Accuracy & Repeatability

up to **800G**

300 mL/min

20 bar

InterSoft® X "Genius"
User-friendly
Click & Drag Gradient
Intelligent Isocratic Mode

Unit Control
15" touch screen
Remote Control
USB x4

Solvent tray w/drainage system

Injection
Liquid or Dry-Load injection w/column equilibration.

Load & Go an automated
4 port electric PPS valve manages solid injection (Dry-Load)

Fraction Collector
2 long racks
112 tubes 18x150mm
Drainage system
Fume enclosure

Quaternary Gradient Pump
Air purge

PF-XS 520 Plus + pack_Ultra

Modular & Easy to Maintain
Built to last

Column i.d. up to
=> **90mm**

Detection
PF-XS520 Plus => UV: 200-400nm
(Multi wavelength & Scan collection
Spectral view & Purity confirmation)
Flow Cell: 0.3mm / 40µL

Smallest footprint on the market

Integrated flash columns holder

=> UV: 200-800nm

P/N: PFXS50



puriFlash[®] 5.020

- Small Organic molecules ★★★★★
- Impurities Identification ★★★★★
- Natural Products ★★★★★
- Peptides, Oligonucleotides ★★★★★
- Proteins, Bio-drugs ★★★★★
- Metabolites Isolation ★★★★★
- Traces Enrichment ★★★★★

The partner of daily challenges

Access automation and more security. Thanks to embedded technology (RFID, leak & level sensors, ...) the working time is now devoted entirely to purification and no longer to the management of the instrument.



Accuracy & Repeatability

up to
800G

300
mL/min

20
bar

InterSoft[®] X "Genius"
User-friendly
Click & Drag Gradient
Intelligent Isocratic Mode

Unit Control
15" touch screen
Remote Control
USB x8 - RJ45

Solvent tray w/drainage system

Pre-columns holder

Quaternary Gradient Pump
Air purge

Fraction Collector
3 racks Gen5
132 tubes 18x150mm
Drainage system
Fume enclosure

Injection
Liquid or Dry-Load injection
w/column equilibration.

Load & Go[™] technology:
an automated
4 port electric PPS valve
manages solid injection

Column i.d. up to
=> 90mm

Modular & Easy to Maintain
Built to last

Safety:
Leak detection
Solvent & waste level monitoring

Integrated flash columns
& pre-columns holder

Detection
UV: 200-400nm

Pack-UVextended: UV: 200-800nm
(Multi wavelength & Scan collection
Spectral view & Purity confirmation)

Flow Cell: 0.3mm / 40µL

Pack-iELSD



Flash
& Go



Load
& Go



Boost
& Go



RFID

P/N: PFG5A0



Small Organic molecules	★★★★★
Impurities Identification	★★★★☆
Natural Products	★★★★☆
Peptides, Oligonucleotides	★★★★☆
Proteins, Bio-drugs	★★★★☆
Metabolites Isolation	★★★★☆
Traces Enrichment	★★★★★

puriFlash® 535-XL **NEW**

Process - Kilo-Lab

Reliability & robustness with significant loading capacity.

Its reliability, its robustness over the time as well as its security features are the essential assets to make semi-continuous productions effective up to hundreds of grams of compound of interest.

Continuity of production on the same device independently of the scale-up factor.



Accuracy & Repeatability

up to **1600G**

400
mL/min

35
bar

InterSoft® X "Genius"
User-friendly
Click & Drag Gradient
Intelligent Isocratic Mode

Unit Control
15" touch screen
Remote Control
USB x4

Solvent tray w/drainage system

Injection
Liquid or Dry-Load injection
w/column equilibration.

Fraction Collector
2 long racks
112 tubes 18x150mm
Drainage system
Fume enclosure

Quaternary Gradient Pump
Air purge

Modular & Easy to Maintain
Built to last

Column i.d. up to
=> 100mm

Smallest footprint
on the market

Detection
UV: 200-400nm
(Multi wavelength & Scan collection
Spectral view & Purity confirmation)
Flow Cell: 0.3mm / 40µL
Pack-UVextended: UV: 200-800nm

Pack-ColHolder:
Integrated flash columns holder



P/N: PF535XL

- Small Organic molecules ★★★★★
- Impurities Identification ☆☆☆☆☆
- Natural Products ★★★★★
- Peptides, Oligonucleotides ★★★★★
- Proteins, Bio-drugs ★★★★★
- Metabolites Isolation ★★★★★
- Traces Enrichment ★★★★★

puriFlash® 5.015-XL **NEW**

Process - Kilo-Lab

Reliability & robustness with significant loading capacity.

Its reliability, its robustness over the time as well as its security features are the essential assets to make semi-continuous productions effective up to hundreds of grams of compound of interest.

Continuity of production on the same device independently of the scale-up factor.



up to
150mm i.d.
Col.

825
mL/min

15
bar

InterSoft® X "Genius"
User-friendly
Click & Drag Gradient
Intelligent Isocratic Mode

Unit Control
15" touch screen
Remote Control
USB x8 - RJ45

Solvent tray w/drainage system

Quaternary Gradient Pump
Washing Disc

Fraction Collector
3 racks Gen5
44 tubes 29.5x200mm
Drainage system
Fume enclosure

Column i.d. up to
=> 150mm

Modular & Easy to Maintain
Built to last

Safety:
Leak detection
Solvent & waste level monitoring

Detection
UV: 200-400nm

Pack-UVextended: UV: 200-800nm
(Multi wavelength & Scan collection
Spectral view & Purity confirmation)

Flow Cell: 0.3mm / 80µL

Pack-Process:
Integrated flash columns holder
& pre-columns holder



P/N: PFG5L0

Ultra Performance Flash Purification

	Flash Purification PF-XS 520Plus*			Flash Purification PF-5.020
Pump				
Flow rate	300mL/min			300mL/min
Pressure max.	20bar			20bar
Quaternary Gradient	yes			yes
Air purge	yes			yes
Washing discs	no			no
Pump washing discs (pack)	no			no
Detector				
UV: 200 - 400nm multi wavelength & scan collection	Plus*	UVextended	Ultra	yes
UV: 200 - 800nm multi wavelength & scan collection	no	yes	yes	pack-UVextended
Spectral view & purity confirmation	yes			yes
iELSD Detection (pack)	no			pack-iELSD
pH/Conductimeter	no			no
Injection				
4 port electrical valve	no	no	yes	yes
6 port electrical valve w/loop	no			no
6 port + 10 port electrical valves w/loop	no			no
Injection mode: liquid - Dry-Load	yes			yes
Column Selection valve				
14 port/6 position electrical valve	no			no
6 port electrical valve	no			no
System Optimization				
Tubings - after pump	1/8" x 1.6mm id			1/8" x 1.6mm id
Flow cell-optical length	0.3mm/40µL			0.3mm/40µL
Columns Holder				
Integrated	yes			yes
Pre-column holder	no			yes
Fraction Collector				
Regular Collector	2 long racks 112 tubes 18x150mm			3 racks Gen5 132 tubes 18x150mm
Unit control				
Touch screen 15"	yes			yes
USB	4			8
RJ45	yes			yes
Software				
Intersoft® X	yes			yes
Safety				
Leak detection (pump, FC, iELSD, holders)	no			yes
Solvent tray w/drainage system	yes			yes
Collector w/drainage sytem	yes			yes
Solvent level monitoring	no			yes
RFID	no			yes
Fume Encloser	yes			yes
Size				
	W: 14" - 35.5cm D: 18.5" - 47cm H: 30" - 77cm			W: 15.75" - 40cm D: 20.0" - 51cm H: 29.5" - 75cm

Process Purification

Flash Purification PF-5.020-5X	Flash Purification PF-5.050	Flash Purification Process PF-535-XL NEW	Flash Purification Process PF-5.015-XL NEW
300mL/min	250mL/min	400mL/min	825mL/min
20bar	50bar	35bar	15bar
yes	yes	yes	yes
yes	yes	yes	no
no	yes	no	yes
no	no	no	no
yes	yes	yes	yes
pack-UVextended	pack-UVextended	pack-UVextended	
yes	yes	yes	yes
pack-iELSD	pack-iELSD	no	no
no	no	no	no
no	no	no	no
yes	yes	yes	yes
yes	no	no	no
no	no	no	no
1/8" x 1.6mm id	1/8" x 1.6mm id	1/8" x 1.6mm id	1/8" x 2.4mm id
0.3 mm/40µL	0.3mm/40µL	0.3mm/40µL	0.3mm/80µL
yes	yes	pack_ColHolder	pack-Process
no	yes	no	pack-Process
3 racks Gen5 132 tubes 18x150mm	3 racks Gen5 132 tubes 18x150mm	2 long racks 112 tubes 18x150mm	3 racks Gen5 42 tubes 29.5x200mm
yes	yes	yes	yes
8	8	4	8
yes	yes	yes	yes
yes	yes	yes	yes
yes	yes	no	yes (except holders)
yes	yes	yes	yes
yes	yes	yes	yes
yes	yes	no	yes
yes	yes	no	yes
yes	yes	yes	yes
W: 15.75" - 40cm	W: 15.75" - 40cm	W: 14" - 35.5cm	W: 15.75" - 40cm
D: 20.0" - 51cm	D: 20.0" - 51cm	D: 18.5" - 47cm	D: 20.0" - 51cm
H: 29.5" - 75cm	H: 29.5" - 75cm	H: 30" - 77cm	H: 29.5" - 75cm

Ultra High Performance Purification

puriFlash® 5.250

Small Organic molecules	★★★★★
Impurities Identification	★★★★★
Natural Products	★★★★★
Peptides, Oligonucleotides	★★★★☆
Proteins, Bio-drugs	★★★★☆
Metabolites Isolation	★★★★★
Traces Enrichment	★★★★★



up to
80mm i.d.
Col.

250
mL/min

250
bar

Small but limitless

Maximum Versatility & Flexibility.

It brings a unique performance in all circumstances. It is adapted to all needs from routine purification to complex mixtures, impurity separation, or traces enrichment, ...

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

InterSoft® X "Genius"
User-friendly
Click & Drag Gradient
Intelligent Isocratic Mode

Unit Control
15" touch screen
Remote Control
USB x8 - RJ45

Solvent tray w/drainage system

Pre-columns holder

Quaternary Gradient Pump
Air purge
Washing Disc

Fraction Collector
3 racks Gen5
132 tubes 18x150mm
Drainage system
Fume encloser

Injection
Liquid or Dry-Load injection
w/column equilibration.

Load & Go™ technology:
an automated
6 port + 10 port electric valves
manages liquid & solid injection

Column i.d. up to
=> 80mm

Modular & Easy to Maintain
Built to last

Safety:
Leak detection
Solvent & waste level monitoring

Integrated columns holder
Pack_Multi: column selection valve

Detection
UV: 200-400nm

Pack-UVextended: UV: 200-800nm
(Multi wavelength & Scan collection
Spectral view & Purity confirmation)

Flow Cell: 0.3mm / 40µL

Pack-iELSD



	Preparative PF-5.125	Preparative PF-5.250	Ultra-Prep PF-5.400
Pump			
Flow rate	250mL/min	250mL/min	125mL/min
Pressure max.	125bar	250bar	400bar
Quaternary Gradient	yes	yes	yes
Air purge	yes	yes	no
Washing discs	yes	yes	yes
Pump washing discs (pack)	pack-PWD	pack-PWD	pack-PWD
Detector			
UV: 200 - 400nm multi wavelength & scan collection	yes	yes	yes
UV: 200 - 800nm multi wavelength & scan collection	pack-UVextended	pack-UVextended	pack-UVextended
Spectral view & purity confirmation	yes	yes	yes
iELSD Detection (pack)	pack-iELSD	pack-iELSD	pack-iELSD
pH/Conductimeter	no	no	no
Injection			
4 port electrical valve	no	no	no
6 port electrical valve w/loop	yes	no	no
6 port + 10 port electrical valves w/loop	no	yes	yes (1/16" & 0.75mm)
Injection mode: liquid - Dry-Load	yes	yes	no
Column Selection valve			
14 port /6 position electrical valve	no	no	no
6 port electrical valve	pack-Multi	pack-Multi	no
System Optimization			
Tubings - after pump	1/8" x 1.6mm id	1/8" x 1.6mm id	55 - 1/16" x 0.50mm id
Flow cell-optical length	0.3mm/40µL	0.3mm/40µL	1.0mm/20µL
Columns Holder			
Integrated	yes	yes	yes
Pre-column holder	yes	yes	no
Fraction Collector			
Regular Collector	3 racks Gen5 132 tubes 18x150mm	3 racks Gen5 132 tubes 18x150mm	3 racks Gen5 132 tubes 18x150mm
Unit control			
Touch screen 15"	yes	yes	yes
USB	8	8	8
RJ45	yes	yes	yes
Software			
Intersoft® X	yes	yes	yes
Safety			
Leak detection (pump, FC, iELSD, holders)	yes	yes	yes
Solvent tray w/drainage system	yes	yes	yes
Collector w/drainage system	yes	yes	yes
Solvent level monitoring	yes	yes	yes
RFID	yes	yes	yes
Fume Encloser	yes	yes	yes
Size			
	W: 15.75" - 40cm D: 20.0" - 51cm H: 29.5" - 75cm	W: 15.75" - 40cm D: 20.0" - 51cm H: 29.5" - 75cm	W: 15.75" - 40cm D: 20.0" - 51cm H: 29.5" - 75cm

Peptides Purification

Small Organic molecules	★★★★☆
Impurities Identification	★★★★★
Natural Products	★★★★★
Peptides, Oligonucleotides	★★★★★
Proteins, Bio-drugs	★★★★☆
Metabolites Isolation	★★★★★
Traces Enrichment	★★★★★

puriFlash® 5.250P

Purification of complex mixtures of peptides

Maximum efficiency.

The use of small particle size combined with the reduction of dead volume makes possible to discriminate nearby peptides in terms of amino acid sequence.

InterSoft® X "Genius"
User-friendly
Click & Drag Gradient
Intelligent Isocratic Mode



Accuracy & Repeatability
up to 60mm i.d. Col.

125 mL/min

250 bar

Unit Control
15" touch screen
Remote Control
USB x8 - RJ45

Fraction Collector
3 racks Gen5
132 tubes 18x150mm
Drainage system

Column i.d. up to
=> 60mm

Modular & Easy to Maintain
Built to last

Solvent tray w/drainage system

Pre-cols holder

Quaternary Gradient Pump
Air purge
Washing Disc + Pump

Injection
Liquid or Dry-Load injection
w/column equilibration.

Load & Go™ technology:
an automated
6 port electric valve
+ 10 port electric valve
manages solid injection

Detection
PF-5.250P: UV: 200-400nm
PF-5.250P + Pack-UVextended: UV: 200-800nm
(Multi wavelength & Scan collection
Spectral view & Purity confirmation)
Flow Cell: 1.3mm / 55µL

Integrated cols holder



	Peptides & Oligonucleotides PF-5.125P	Peptides & Oligonucleotides PF-5.250P
Pump		
Flow rate	250mL/min	125mL/min
Pressure max.	125bar	250bar
Quaternary Gradient	yes	yes
Air purge	yes	yes
Washing discs	yes	yes
Pump washing discs (pack)	yes	yes
Detector		
UV: 200 - 400nm multi wavelength & scan collection	yes	yes
UV: 200 - 800nm multi wavelength & scan collection	pack-UVextended	pack-UVextended
Spectral view & purity confirmation	yes	yes
iELSD Detection (pack)	pack-iELSD	pack-iELSD
pH/Conductimeter	no	no
Injection		
4 port electrical valve	no	no
6 port electrical valve w/loop	no	no
6 port + 10 port electrical valves w/loop	yes	yes
Injection mode: liquid - Dry-load	yes	yes
Column Selection valve		
14 port /6 position electrical valve	no	no
6 port electrical valve	pack-Multi	pack-Multi
System Optimization		
Tubings	1/8" x 1.0mm id	peek 1/16" x 0.75mm id
Flow cell-optical length	1.3mm / 55µL	1.3mm/55µL
Columns Holder		
Integrated	yes	yes
Pre-column holder	yes	yes
Fraction Collector		
Regular Collector	3 racks Gen5 132 tubes 18x150mm	3 racks Gen5 132 tubes 18x150mm
Unit control		
Touch screen 15"	yes	yes
USB	8	8
RJ45	yes	yes
Software		
Interchim® soft X "Genius"	yes	yes
Safety		
Leak detection (pump, FC, ...)	yes	yes
Solvent tray w/drainage system	yes	yes
Collector w/drainage system	yes	yes
Solvent level monitoring	yes	yes
RFID	yes	yes
Fume Encloser	yes	yes
Size		
	W: 15.75" - 40cm D: 20.0" - 51cm H: 29.5" - 75cm	W: 15.75" - 40cm D: 20.0" - 51cm H: 29.5" - 75cm

Interchim® puriFlash® 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)



Compact Single Quad - APCI

Real-time reaction monitoring of batch reactions. The hood-based puriFlash MS reduces the burden on open-access platforms.

puriFlash® MS (1200 m/z): 1H5460

puriFlash® MS (2000 m/z): 1G6770

	puriFlash® MS for small molecule, synthetic organic chemists. Upgraded specs for pos/neg switching, faster scanning & higher flow rate	puriFlash® MS-HMW 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	10 µL/min - 1 mL/min	10µL/min - 1mL/min
Flow rate range APCI	10 µL/min - 2 mL/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 5 µl injection à 100 µl/min)	100:1	100:1
Accuracy (m/z)	0.1	0.1
Stability (m/z-unites per 24 hour period: 18 - 24 °C)	0.1	0.1



Plate express



ASAP and iASAP probes



Touch Express® Open Port Sampling Interface (OPSI)



FIA

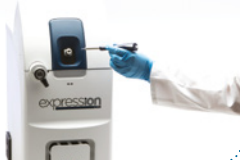


HPLC



Plate express

Direct mass analysis from TLC plates without additional sample preparation.
Identify spots in <1 minute
Aiming the spot by laser
Automatic purge between 2 samples
Works with all types of plates : glass, aluminium, polymeric



ASAP and iASAP probes

APCI probe allowing the direct liquid or solid samples analysis for a quick identification
No sample preparation
iASAP probe is used for the injection of sample under inert atmosphere



Touch Express® Open Port Sampling Interface (OPSI)

The Touch Express Open Port Sampling Interface (OPSI), is designed for simple sampling of solids, liquids and sample preparation tips and fibers. Paired with the electrospray ion source of the expression® Compact Mass Spectrometer (CMS), the product incorporates a low volume, open port of continuously swept solvent, flowing directly into the electrospray ion source of the mass spectrometer. Any soluble sample touching the port is analyzed by the CMS in mere seconds.



FIA

Flow Injection Analysis
Injecton valve allowing the injection of diluted liquid compounds



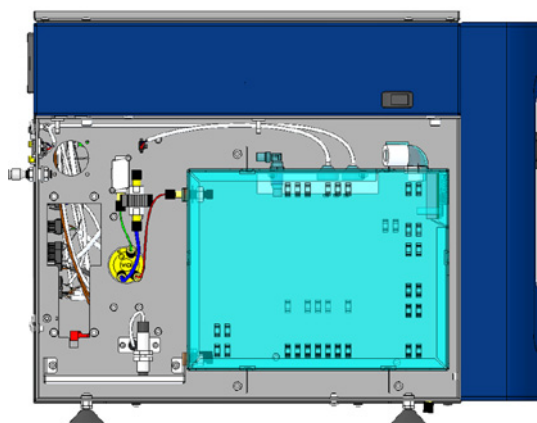
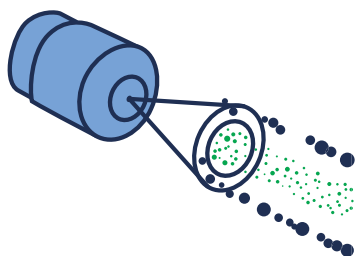
HPLC

Coupling with HPLC or UPLC systems

Interchim® preparative Integrated ELSD

Secure your purification by a Universal Detector

- Even non chromophore are now visible
- Specifically developed for purification Mass response detector
- Full control of the split and the inlet flow
- True purification design nebulizer: no clogging
- Large dynamic range: mg up to hundred g
- Easy access /easy maintenance

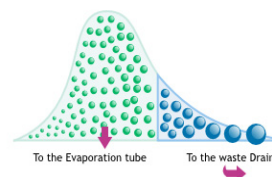


Optimized **Low Temperature** Technology
Quicker droplets drying at lower temperature
Preserves the integrity of termo-sensitive compounds

Low Temperature Technology:

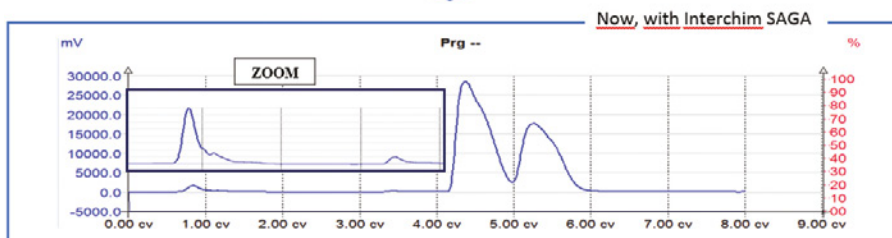
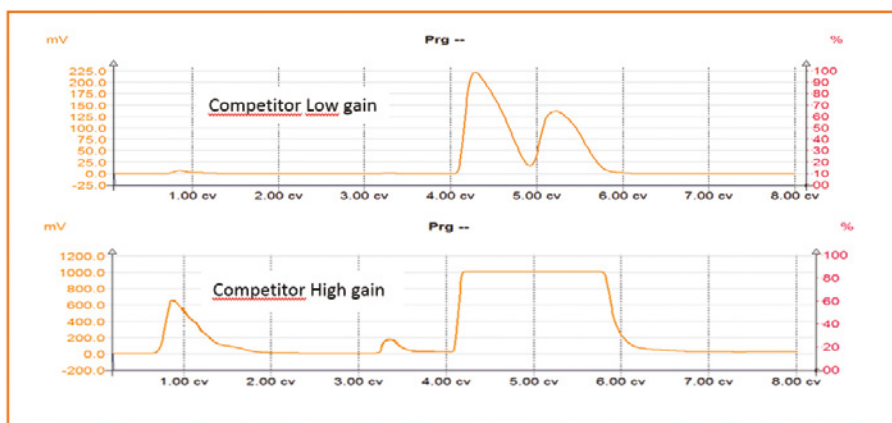
This technology provides greater sensitivity due to both the nebulizer that enables droplets selection and effective photomultiplier.

With this patented technology nebulizer, the droplets dry-up faster at low temperature, providing appropriate signal intensities for the semi-volatile compounds. This technology requires no additional peripheral, such as a nebulizer with heating system (spray chamber) or an evaporation tube (Peltier cooling) that can degrade the heat-sensitive compounds.



Dynamic Gain SAGA:

SAGA adapt the gain to avoid saturation while to continue to detect small quantity of products. ELSD becomes unsaturable without impact on sensitivity.



- Detection: high sensitivity photodiode
- Source: LED (470nm)
- Ambient temperature to 100 ° C
- Dynamic Split: 40µL / min sample in DEDL
- Gas: 1-1.5L/min - 1bar

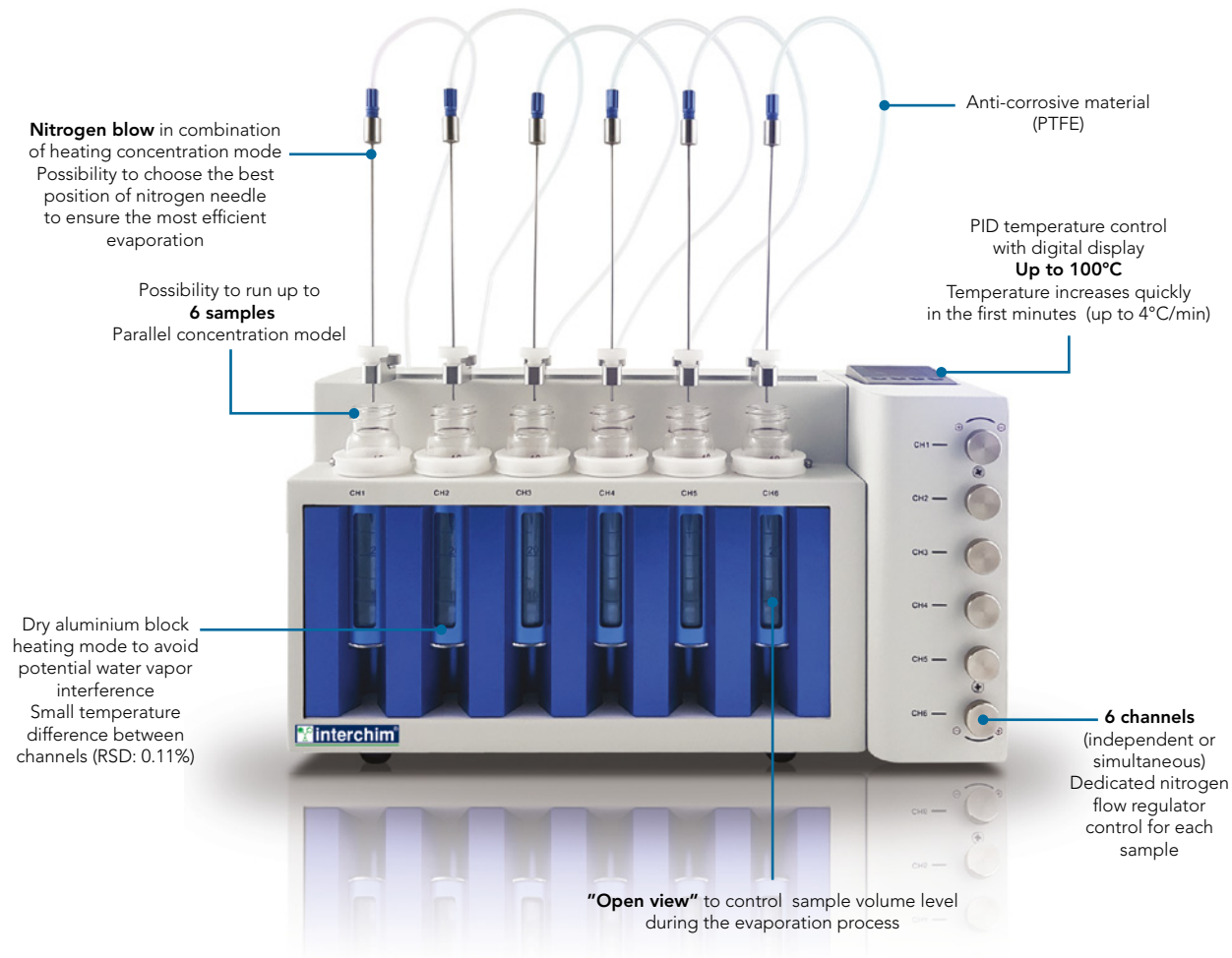
puriVap-6™ Interchim® Evaporator

Simple & Smart - 6 positions

puriVap-6™



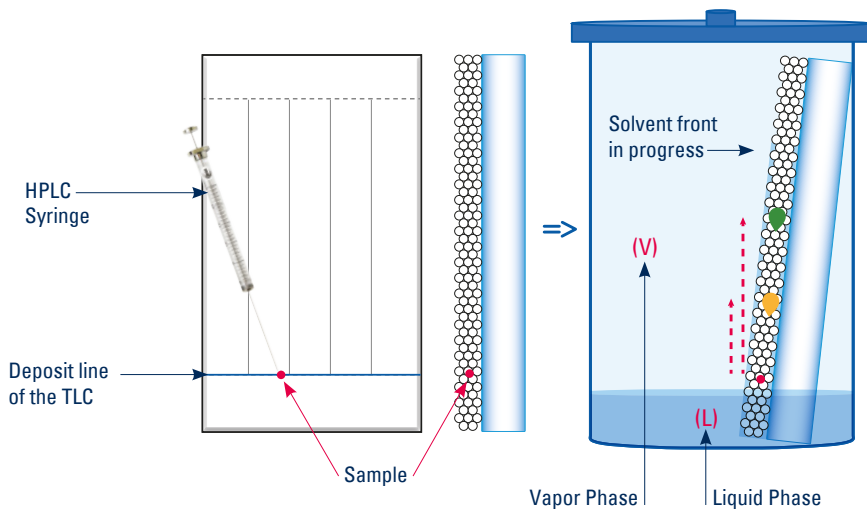
- 6 channels to run up to 6 samples (independent or simultaneous)
- Sample volumes from 2mL up to 60mL
- PID temperature control with digital display up to 100°C
- Temperature increases quickly in the first minutes (up to 4°C/min)
- Dedicated nitrogen flow regulator control for each sample
- Nitrogen blow in combination of heating concentration mode
- Possibility to choose the best position of nitrogen needle to ensure the most efficient evaporation
- Anti-corrosive material (PTFE)
- "Open view" to control sample volume level during the evaporation process
- Dry aluminium block heating mode to avoid potential water vapor interference
- Small difference temperature between channels (RSD: 0,11%)
- Low gas consumption (nitrogen gas supply : 1-2 bar max | flow rate: 7-8L/min)



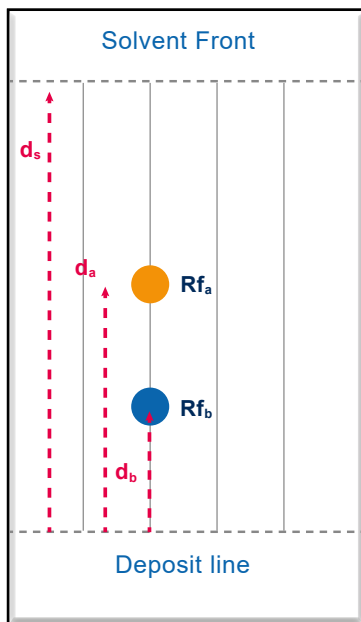
From theory to Modern Transfer TLC to Flash & Prep Chromatography

Basic principle:

The sample is dropped off, with a capillary, on the deposit line of the TLC plate which is then immersed in the tank containing the mobile phase. This one ascends through the stationary phase by capillarity carrying each compound which moves at its own velocity behind the solvent front according to its affinity for the stationary and the mobile phases.



In TLC, the “retention factor” (R_f) is defined by the ratio of the distance traveled by the analyte (d_a) over the distance traveled by the solvent front (d_s).



$$Rf_a = d_a / d_s$$

$$Rf_b = d_b / d_s$$

In practice, it is necessary to reason in the amount of mobile phase necessary to use to elute the solute out of the column. To take into account there different geometries, this retention volume is expressed relative to the void volume of the column used.

It is a dimensionless number identified by the acronym CV (also called V_s)

$$V_{s_a} = CV_a = 1/Rf_a = 1 + k_a$$

$$V_{s_b} = CV_b = 1/Rf_b = 1 + k_b$$

$$\Rightarrow \Delta CV = CV_b - CV_a$$

There is a mathematical relation between CV and the retention factor k in liquid HPLC \Rightarrow

$$k = K_{tr} \times (1/Rf - 1) \text{ et avec } K_{tr} = \text{cste} = 1$$

$$\Rightarrow \Delta k = K_{tr} \times [(1/Rf_b - 1) - (1/Rf_a - 1)]$$

$$\Rightarrow CV = \Delta k$$

Revolutionize your TLC using our App



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 highest efficiency in your laboratory.

Thanks to the App that we have developed, we can share your future vision: constantly providing new technology solutions for you. 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:

- Automatic detection of your compounds and calculation of your R_f and ΔCV ($=\Delta K$) values
- Direct (and secured) 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 can be used 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 R_f and ΔCV ($=\Delta K$). It indicates if the R_f 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 successful purification.



From theory to Modern Transfer HPLC to Prep

Method transfer from HPLC's to Purification

Calculation of the preparative conditions =>

a) Flow rate (F)

It must be adjusted by keeping the linear velocity constant between the analytical and the transferred preparative method, taking into account the particle size and the geometry of the column.

$$F_{\text{prep}} = F_{\text{ana}} \times \left(\frac{id_{\text{prep}}^2}{id_{\text{ana}}^2} \right) \times \left(\frac{d_p \text{ ana}}{d_p \text{ prep}} \right)$$

Example:

$$F_{\text{prep}} = 0.75 \times \left(\frac{30.0^2}{4.6^2} \right) \times \left(\frac{5}{15} \right) = 11.0 \text{ mL/min}$$



5µm, 250 x 4.6mm
opt.F = 0.75mL/min



15µm, 250 x 30.0mm
F = 11.0mL/min

b) Injected volume (V)

It must be adapted according to the volume of the phases to obtain the same chromatographic efficiencies.

The injected volumes are usually higher than those at the analytical scale to increase the loading capacity. Under overloading conditions, asymmetric peaks and a change in retention time are observed.

$$V_{\text{prep}} = V_{\text{ana}} \times \left(\frac{id_{\text{prep}}^2}{id_{\text{ana}}^2} \right) \times \left(\frac{L_{\text{prep}}}{L_{\text{ana}}} \right)$$

Example:

$$V_{\text{prep}} = 5 \times \left(\frac{30.0^2}{4.6^2} \right) \times \left(\frac{250}{250} \right) = 213 \mu\text{L}$$



5µm, 250 x 4.6mm
V_{inj} = 5µL



15µm, 250 x 30.0mm
V_{inj} = 213µL

c) Gradient conditions, isocratic step

It is necessary to keep the ratio isocratic time / dead time of the column constant in analytic / preparative to keep a number of percolated column volumes equivalent.

$$T_{\text{prep}} = T_{\text{ana}} \times \left(\frac{id_{\text{prep}}^2}{id_{\text{ana}}^2} \right) \times \left(\frac{L_{\text{prep}}}{L_{\text{ana}}} \right) \times \left(\frac{F_{\text{ana}}}{F_{\text{prep}}} \right)$$

T = time of the isocratic step

Example:

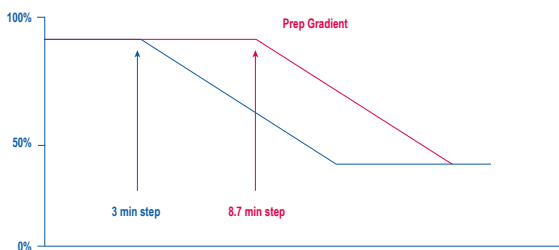
$$T_{\text{prep}} = 3 \times \left(\frac{30.0^2}{4.6^2} \right) \times \left(\frac{250}{250} \right) \times \left(\frac{0.75}{11} \right) = 11.0 \text{ mL/min}$$



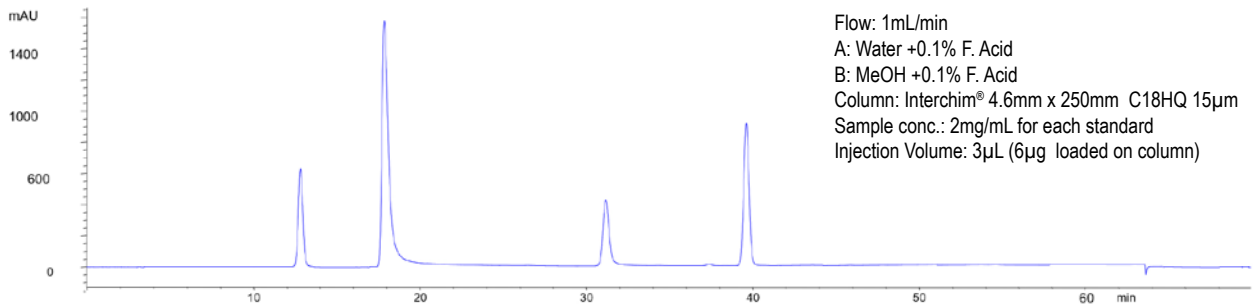
5µm, 250 x 4.6mm
opt.F = 0.75mL/min



15µm, 250 x 30.0mm
F = 11.0mL/min



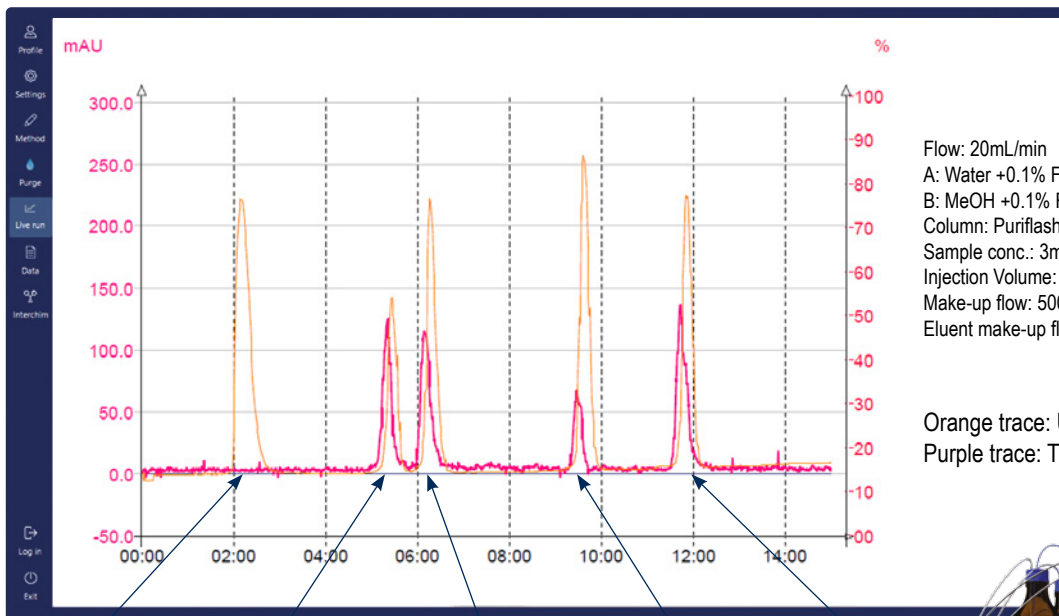
HPLC analysis using standard gradient method



Flow: 1mL/min
 A: Water +0.1% F. Acid
 B: MeOH +0.1% F. Acid
 Column: Interchim® 4.6mm x 250mm C18HQ 15µm
 Sample conc.: 2mg/mL for each standard
 Injection Volume: 3µL (6µg loaded on column)

↓ Gradient transfer method*

UPFP-APCI/MS



Flow: 20mL/min
 A: Water +0.1% F. Acid
 B: MeOH +0.1% F. Acid
 Column: Puriflash® Column C18HQ 15µm 35g
 Sample conc.: 3mg/mL for each standard
 Injection Volume: 500 µL (1.5mg loaded on column)
 Make-up flow: 500µL/min
 Eluent make-up flow: MeOH +0.1% F. Acid

Orange trace: UV (Scan 200-600nm)
 Purple trace: TIC

Solvent Theophylline Papaverine Quercetin Piperine

Original method (1)			
Original column geometry		Original exp. Conditions	
Column length (L _c)	250 mm	Flow-rate (F _r)	1000 µL/min
Column diameter (d _c)	4,6 mm	Inj. volume (V _{inj})	20,0 µL
Particle size (d _p)	10,0 mm		
Dwell volume (V _d)	1, mL		
Additional gradient information			
Suggested reconditioning step	29 min		
Original gradient profile			
Step	time (min)	%A	%B
initial conditions	0,00	60	40
initial hold	20,00	25	75
3	30,00	25	75
4	40,00	0	100
5	70,00	0	100

Transferred method (2)			
Transferred column geometry		Transferred exp. Conditions	
Column length (L _c)	250 mm	Flow-rate (F _r)	21240 µL/min
Column diameter (d _c)	21,2 mm	Inj. volume (V _{inj})	424,8 µL
Particle size (d _p)	10,0 mm		
Dwell volume (V _d)	25, mL		
Additional gradient information			
Suggested reconditioning step	29 min		
Geometric transfer of the gradient profile			
Step	time (min)	%A	%B
initial conditions	0,00	60	40
initial hold	19,82	25	75
3	29,82	25	75
4	39,82	0	100
5	69,82	0	100



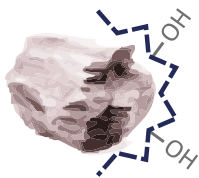
puriFlash® 5.125
 Complex Purifications with Confidence
 250mL/min@up to 125bar



* Davy Guillaume, Eur. J. Pharma. and Biopharma. 2008 , 68 , 430

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

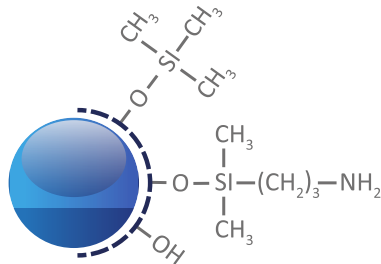
60Å - 500m²/g
5, 10, 15, 30 & 50µm
pH stability: 1.5 to 6.5
High efficiency



puriFlash® SI-HP

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

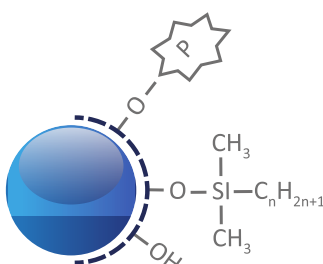
Normal Phase / Ion exchange



puriFlash® NH2

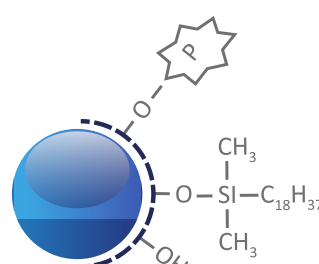
100Å - 300m²/g
5, 10, 15, 30 & 50 µm
Amino
%C: 4
End-capping: One-step
pH stability: 2 to 6.5
Can be both a weak anion exchanger for strong acids or a polar phase that can interact with the OH, NH, SH... functions.

Reverse Phase



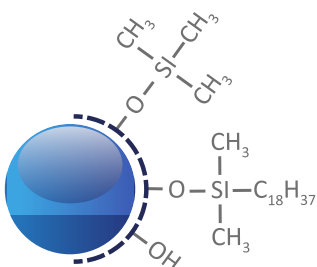
puriFlash® RP-AQ

60Å - 500m²/g
15 & 30µm
RP-alkyl
%C: 6
End-capping: Mixte
pH stability: 2.0 to 7.5
The bonding chemistry makes possible to start the gradient at a 100% of 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.



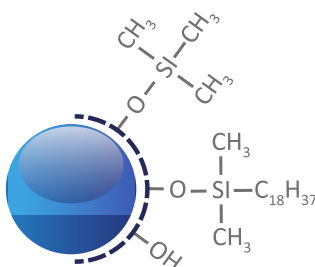
puriFlash® C18-AQ

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 possible to start the gradient at a 100% of water. Suitable for the separation and purification of moderately polar and non-polar molecules.



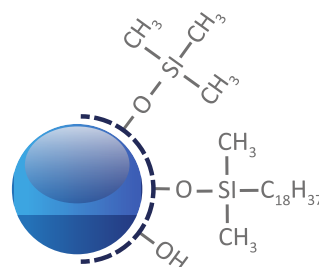
puriFlash® C18-HP

100Å - 300m²/g
5, 10, 15, 30 & 50µm
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® 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.

Complete list on www.flash-chromatography.com

Interchim® Flash columns

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

Our Ultra Pure Spherical Silica combined to our chemistry established optimized sample recoveries & make easier transfer from analytical to purification.

Interchim® Genius allow an easy transfer from any TLC or analytical data from any columns to "ready-to-go" & 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 ₀ (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

Interchim® LC Preparative columns

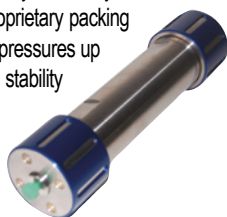
Interchim® Preparative columns range from 10.0 to 50.8 mm i.d and are for the purification of samples ranging from 0.5 mg to 1 gram.

Column tubing & column packing

The tube polishing value (Ra) has a fundamental importance in preparative chromatography.

A primary reason for broadening peaks and low efficiency is the utilization of a poorer quality tubing. Molecules in the center of the mobile phase stream can move more rapidly than the 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 8 µ 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 withstand packing pressures up to 550 bars contributing strongly to a good bed stability and column life time.



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, a careful control of the introduction of sample 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 50 mm i.d column with a 500 µm i.d capillary fitting - sample introduced to the column (without any sample distributor) will only interact with 0.01% of the surface column head. As well as a dramatic loss in capacity there will also be a high potential for the column head to prematurely clog, rapidly reducing column life times.

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 raising column life time.

puriFlash® Columns

Uptisphere® Strategy™ C18-HQ

LC Preparative Columns		5µm	RFID	Qty	10µm	RFID	Qty	15µm	RFID	Qty
250 x 4.6mm	US5C18HQ-250/P46	-R	1u	US10C18HQ-250/P46	-R	1u	US15C18HQ-250/P46	-R	1u	
150 x 10.0mm	US5C18HQ-150/100	-R	1u	US10C18HQ-150/100	-R	1u	US15C18HQ-150/100	-R	1u	
250 x 10.0mm	US5C18HQ-250/100	-R	1u	US10C18HQ-250/100	-R	1u	US15C18HQ-250/100	-R	1u	
50 x 21.2mm	US5C18HQ-050/212	-R	1u	US10C18HQ-050/212	-R	1u	US15C18HQ-050/212	-R	1u	
100 x 21.2mm	US5C18HQ-100/212	-R	1u	US10C18HQ-100/212	-R	1u	US15C18HQ-100/212	-R	1u	
150 x 21.2mm	US5C18HQ-150/212	-R	1u	US10C18HQ-150/212	-R	1u	US15C18HQ-150/212	-R	1u	
250 x 21.2mm	US5C18HQ-250/212	-R	1u	US10C18HQ-250/212	-R	1u	US15C18HQ-250/212	-R	1u	
50 x 30.0mm	US5C18HQ-050/300	-R	1u	US10C18HQ-050/300	-R	1u	US15C18HQ-050/300	-R	1u	
100 x 30.0mm	US5C18HQ-100/300	-R	1u	US10C18HQ-100/300	-R	1u	US15C18HQ-100/300	-R	1u	
150 x 30.0mm	US5C18HQ-150/300	-R	1u	US10C18HQ-150/300	-R	1u	US15C18HQ-150/300	-R	1u	
250 x 30.0mm	US5C18HQ-250/300	-R	1u	US10C18HQ-250/300	-R	1u	US15C18HQ-250/300	-R	1u	
50 x 50.0mm	US5C18HQ-050/500	-R	1u	US10C18HQ-050/500	-R	1u	US15C18HQ-050/500	-R	1u	
250 x 50.0mm	US5C18HQ-250/500	-R	1u	US10C18HQ-250/500	-R	1u	US15C18HQ-250/500	-R	1u	

Flash Columns		15µm	RFID	Qty
F0001	SC-15C18HQ-F0001	-R	25u	
F0004	PF-15C18HQ-F0004	-R	4u	
F0012	PF-15C18HQ-F0012	-R	2u	
F0025	PF-15C18HQ-F0025	-R	1u	
F0040	PF-15C18HQ-F0040	-R	1u	
F0080	PF-15C18HQ-F0080	-R	1u	
F0120	PF-15C18HQ-F0120	-R	1u	
F0220	PF-15C18HQ-F0220	-R	1u	
F0330	PF-15C18HQ-F0330	-R	1u	

 **RFID Columns**
add [-R] at the end of P/N

puriFlash® C18-XS

LC Preparative Columns		5µm	RFID	Qty	10µm	RFID	Qty	15µm	RFID	Qty
250 x 4.6mm	PF5C18XS-250/P46	-R	1u	PF10C18XS-250/P46	-R	1u	PF15C18XS-250/P46	-R	1u	
150 x 10.0mm	PF5C18XS-150/100	-R	1u	PF10C18XS-150/100	-R	1u	PF15C18XS-150/100	-R	1u	
250 x 10.0mm	PF5C18XS-250/100	-R	1u	PF10C18XS-250/100	-R	1u	PF15C18XS-250/100	-R	1u	
50 x 21.2mm	PF5C18XS-050/212	-R	1u	PF10C18XS-050/212	-R	1u	PF15C18XS-050/212	-R	1u	
100 x 21.2mm	PF5C18XS-100/212	-R	1u	PF10C18XS-100/212	-R	1u	PF15C18XS-100/212	-R	1u	
150 x 21.2mm	PF5C18XS-150/212	-R	1u	PF10C18XS-150/212	-R	1u	PF15C18XS-150/212	-R	1u	
250 x 21.2mm	PF5C18XS-250/212	-R	1u	PF10C18XS-250/212	-R	1u	PF15C18XS-250/212	-R	1u	
50 x 30.0mm	PF5C18XS-050/300	-R	1u	PF10C18XS-050/300	-R	1u	PF15C18XS-050/300	-R	1u	
100 x 30.0mm	PF5C18XS-100/300	-R	1u	PF10C18XS-100/300	-R	1u	PF15C18XS-100/300	-R	1u	
150 x 30.0mm	PF5C18XS-150/300	-R	1u	PF10C18XS-150/300	-R	1u	PF15C18XS-150/300	-R	1u	
250 x 30.0mm	PF5C18XS-250/300	-R	1u	PF10C18XS-250/300	-R	1u	PF15C18XS-250/300	-R	1u	
50 x 50.0mm	PF5C18XS-050/500	-R	1u	PF10C18XS-050/500	-R	1u	PF15C18XS-050/500	-R	1u	
250 x 50.0mm	PF5C18XS-250/500	-R	1u	PF10C18XS-250/500	-R	1u	PF15C18XS-250/500	-R	1u	

Flash Columns		15µm	RFID	Qty	30µm	RFID	Qty
F0001	SC-15C18XS-F0001	-R	25u	---	---	---	
F0004	PF-15C18XS-F0004	-R	4u	PF-30C18XS-F0004	-R	4u	
F0012	PF-15C18XS-F0012	-R	2u	PF-30C18XS-F0012	-R	2u	
F0025	PF-15C18XS-F0025	-R	1u	PF-30C18XS-F0025	-R	1u	
F0040	PF-15C18XS-F0040	-R	1u	PF-30C18XS-F0040	-R	1u	
F0080	PF-15C18XS-F0080	-R	1u	PF-30C18XS-F0080	-R	1u	
F0120	PF-15C18XS-F0120	-R	1u	PF-30C18XS-F0120	-R	1u	
F0220	PF-15C18XS-F0220	-R	1u	PF-30C18XS-F0220	-R	1u	
F0330	PF-15C18XS-F0330	-R	1u	PF-30C18XS-F0330	-R	1u	
F0800	---	---	---	PF-30C18XS-F0800	-R	1u	
F1600	---	---	---	PF-30C18XS-F1600	-R	1u	

 **RFID Columns**
add [-R] at the end of P/N

puriFlash® Columns

puriFlash® C18-HP

LC Preparative Columns		5µm	RFID	Qty	10µm	RFID	Qty	15µm	RFID	Qty
250 x 4.6mm	PF5C18HP-250/P46	-R	1u	PF10C18HP-250/P46	-R	1u	PF15C18HP-250/P46	-R	1u	
150 x 10.0mm	PF5C18HP-150/100	-R	1u	PF10C18HP-150/100	-R	1u	PF15C18HP-150/100	-R	1u	
250 x 10.0mm	PF5C18HP-250/100	-R	1u	PF10C18HP-250/100	-R	1u	PF15C18HP-250/100	-R	1u	
50 x 21.2mm	PF5C18HP-050/212	-R	1u	PF10C18HP-050/212	-R	1u	PF15C18HP-050/212	-R	1u	
100 x 21.2mm	PF5C18HP-100/212	-R	1u	PF10C18HP-100/212	-R	1u	PF15C18HP-100/212	-R	1u	
150 x 21.2mm	PF5C18HP-150/212	-R	1u	PF10C18HP-150/212	-R	1u	PF15C18HP-150/212	-R	1u	
250 x 21.2mm	PF5C18HP-250/212	-R	1u	PF10C18HP-250/212	-R	1u	PF15C18HP-250/212	-R	1u	
50 x 30.0mm	PF5C18HP-050/300	-R	1u	PF10C18HP-050/300	-R	1u	PF15C18HP-050/300	-R	1u	
100 x 30.0mm	PF5C18HP-100/300	-R	1u	PF10C18HP-100/300	-R	1u	PF15C18HP-100/300	-R	1u	
150 x 30.0mm	PF5C18HP-150/300	-R	1u	PF10C18HP-150/300	-R	1u	PF15C18HP-150/300	-R	1u	
250 x 30.0mm	PF5C18HP-250/300	-R	1u	PF10C18HP-250/300	-R	1u	PF15C18HP-250/300	-R	1u	
50 x 50.0mm	PF5C18HP-050/500	-R	1u	PF10C18HP-050/500	-R	1u	PF15C18HP-050/500	-R	1u	
250 x 50.0mm	PF5C18HP-250/500	-R	1u	PF10C18HP-250/500	-R	1u	PF15C18HP-250/500	-R	1u	

Flash Columns		15µm	RFID	Qty	30µm	RFID	Qty	50µm	RFID	Qty
F0001	SC-15C18HP-F0001	-R	25u	---	-R	---	---	-R	---	
F0004	PF-15C18HP-F0004	-R	4u	PF-30C18HP-F0004	-R	25u	PF-50C18HP-F0004	-R	25u	
F0012	PF-15C18HP-F0012	-R	2u	PF-30C18HP-F0012	-R	4u	PF-50C18HP-F0012	-R	4u	
F0025	PF-15C18HP-F0025	-R	1u	PF-30C18HP-F0025	-R	2u	PF-50C18HP-F0025	-R	2u	
F0040	PF-15C18HP-F0040	-R	1u	PF-30C18HP-F0040	-R	1u	PF-50C18HP-F0040	-R	1u	
F0080	PF-15C18HP-F0080	-R	1u	PF-30C18HP-F0080	-R	1u	PF-50C18HP-F0080	-R	1u	
F0120	PF-15C18HP-F0120	-R	1u	PF-30C18HP-F0120	-R	1u	PF-50C18HP-F0120	-R	1u	
F0220	PF-15C18HP-F0220	-R	1u	PF-30C18HP-F0220	-R	1u	PF-50C18HP-F0220	-R	1u	
F0330	PF-15C18HP-F0330	-R	1u	PF-30C18HP-F0330	-R	1u	PF-50C18HP-F0330	-R	1u	
F0800	---	---	---	PF-30C18HP-F0800	-R	1u	PF-50C18HP-F0800	-R	1u	
F1600	---	---	---	PF-30C18HP-F1600	-R	1u	PF-50C18HP-F1600	-R	1u	

puriFlash® C18-AQ

LC Preparative Columns		5µm	RFID	Qty	10µm	RFID	Qty	15µm	RFID	Qty
250 x 4.6mm	PF5C18AQ-250/P46	-R	1u	PF10C18AQ-250/P46	-R	1u	PF15C18AQ-250/P46	-R	1u	
150 x 10.0mm	PF5C18AQ-150/100	-R	1u	PF10C18AQ-150/100	-R	1u	PF15C18AQ-150/100	-R	1u	
250 x 10.0mm	PF5C18AQ-250/100	-R	1u	PF10C18AQ-250/100	-R	1u	PF15C18AQ-250/100	-R	1u	
50 x 21.2mm	PF5C18AQ-050/212	-R	1u	PF10C18AQ-050/212	-R	1u	PF15C18AQ-050/212	-R	1u	
100 x 21.2mm	PF5C18AQ-100/212	-R	1u	PF10C18AQ-100/212	-R	1u	PF15C18AQ-100/212	-R	1u	
150 x 21.2mm	PF5C18AQ-150/212	-R	1u	PF10C18AQ-150/212	-R	1u	PF15C18AQ-150/212	-R	1u	
250 x 21.2mm	PF5C18AQ-250/212	-R	1u	PF10C18AQ-250/212	-R	1u	PF15C18AQ-250/212	-R	1u	
50 x 30.0mm	PF5C18AQ-050/300	-R	1u	PF10C18AQ-050/300	-R	1u	PF15C18AQ-050/300	-R	1u	
100 x 30.0mm	PF5C18AQ-100/300	-R	1u	PF10C18AQ-100/300	-R	1u	PF15C18AQ-100/300	-R	1u	
150 x 30.0mm	PF5C18AQ-150/300	-R	1u	PF10C18AQ-150/300	-R	1u	PF15C18AQ-150/300	-R	1u	
250 x 30.0mm	PF5C18AQ-250/300	-R	1u	PF10C18AQ-250/300	-R	1u	PF15C18AQ-250/300	-R	1u	
50 x 50.0mm	PF5C18AQ-050/500	-R	1u	PF10C18AQ-050/500	-R	1u	PF15C18AQ-050/500	-R	1u	
250 x 50.0mm	PF5C18AQ-250/500	-R	1u	PF10C18AQ-250/500	-R	1u	PF15C18AQ-250/500	-R	1u	

Flash Columns		15µm	RFID	Qty	30µm	RFID	Qty
F0001	SC-15C18AQ-F0001	-R	25u	---	-R	---	
F0004	PF-15C18AQ-F0004	-R	4u	PF-30C18AQ-F0004	-R	4u	
F0012	PF-15C18AQ-F0012	-R	2u	PF-30C18AQ-F0012	-R	2u	
F0025	PF-15C18AQ-F0025	-R	1u	PF-30C18AQ-F0025	-R	1u	
F0040	PF-15C18AQ-F0040	-R	1u	PF-30C18AQ-F0040	-R	1u	
F0080	PF-15C18AQ-F0080	-R	1u	PF-30C18AQ-F0080	-R	1u	
F0120	PF-15C18AQ-F0120	-R	1u	PF-30C18AQ-F0120	-R	1u	
F0220	PF-15C18AQ-F0220	-R	1u	PF-30C18AQ-F0220	-R	1u	
F0330	PF-15C18AQ-F0330	-R	1u	PF-30C18AQ-F0330	-R	1u	
F0800	---	---	---	PF-30C18AQ-F0800	-R	1u	
F1600	---	---	---	PF-30C18AQ-F1600	-R	1u	



RFID Columns
add [-R] at the end of P/N



puriFlash® Columns

puriFlash® RP-AQ

LC Preparative Columns		15µm	RFID	Qty
250 x 4.6mm	PF15RPAQ-250/P46		-R	1u
150 x 10.0mm	PF15RPAQ-150/100		-R	1u
250 x 10.0mm	PF15RPAQ-250/100		-R	1u
50 x 21.2mm	PF15RPAQ-050/212		-R	1u
100 x 21.2mm	PF15RPAQ-100/212		-R	1u
150 x 21.2mm	PF15RPAQ-150/212		-R	1u
250 x 21.2mm	PF15RPAQ-250/212		-R	1u
50 x 30.0mm	PF15RPAQ-050/300		-R	1u
100 x 30.0mm	PF15RPAQ-100/300		-R	1u
150 x 30.0mm	PF15RPAQ-150/300		-R	1u
250 x 30.0mm	PF15RPAQ-250/300		-R	1u
50 x 50.0mm	PF15RPAQ-050/500		-R	1u
250 x 50.0mm	PF15RPAQ-250/500		-R	1u



RFID Columns
add [-R] at the end of P/N

puriFlash® RP-AQ

Flash Columns		15µm	RFID	Qty	30µm	RFID	Qty
F0001	SC-15RPAQ-F0001		-R	25u	---	-R	---
F0004	PF-15RPAQ-F0004		-R	4u	PF-30RPAQ-F0004	-R	4u
F0012	PF-15RPAQ-F0012		-R	2u	PF-30RPAQ-F0012	-R	2u
F0025	PF-15RPAQ-F0025		-R	1u	PF-30RPAQ-F0025	-R	1u
F0040	PF-15RPAQ-F0040		-R	1u	PF-30RPAQ-F0040	-R	1u
F0080	PF-15RPAQ-F0080		-R	1u	PF-30RPAQ-F0080	-R	1u
F0120	PF-15RPAQ-F0120		-R	1u	PF-30RPAQ-F0120	-R	1u
F0220	PF-15RPAQ-F0220		-R	1u	PF-30RPAQ-F0220	-R	1u
F0330	PF-15RPAQ-F0330		-R	1u	PF-30RPAQ-F0330	-R	1u
F0800	---	---	---	---	PF-30RPAQ-F0800	-R	1u
F1600	---	---	---	---	PF-30RPAQ-F1600	-R	1u



RFID Columns
add [-R] at the end of P/N

puriFlash® IR-SI

Flash Columns		20µm	RFID	Qty	50µm	RFID	Qty
F0004	IR-20SI-F0004		-R	40u	IR-50SI-F0004	-R	40u
F0012	IR-20SI-F0012		-R	30u	IR-50SI-F0012	-R	30u
F0025	IR-20SI-F0025		-R	25u	IR-50SI-F0025	-R	25u
F0040	IR-20SI-F0040		-R	20u	IR-50SI-F0040	-R	20u
F0080	IR-20SI-F0080		-R	10u	IR-50SI-F0080	-R	10u
F0120	IR-20SI-F0120		-R	8u	IR-50SI-F0120	-R	8u
F0220	IR-20SI-F0220		-R	4u	IR-50SI-F0220	-R	4u
F0330	IR-20SI-F0330		-R	4u	IR-50SI-F0330	-R	4u
F0800	IR-20SI-F0800		-R	1u	IR-50SI-F0800	-R	1u
F1600	IR-20SI-F1600		-R	1u	IR-50SI-F1600	-R	1u



RFID Columns
add [-R] at the end of P/N

puriFlash® SIHP

LC Preparative Columns		5µm	RFID	Qty	10µm	RFID	Qty	15µm	RFID	Qty
250 x 4.6mm	PF5SIHP-250/P46		-R	1u	PF10SIHP-250/P46	-R	1u	PF15SIHP-250/P46	-R	1u
150 x 10.0mm	PF5SIHP-150/100		-R	1u	PF10SIHP-150/100	-R	1u	PF15SIHP-150/100	-R	1u
250 x 10.0mm	PF5SIHP-250/100		-R	1u	PF10SIHP-250/100	-R	1u	PF15SIHP-250/100	-R	1u
50 x 21.2mm	PF5SIHP-050/212		-R	1u	PF10SIHP-050/212	-R	1u	PF15SIHP-050/212	-R	1u
100 x 21.2mm	PF5SIHP-100/212		-R	1u	PF10SIHP-100/212	-R	1u	PF15SIHP-100/212	-R	1u
150 x 21.2mm	PF5SIHP-150/212		-R	1u	PF10SIHP-150/212	-R	1u	PF15SIHP-150/212	-R	1u
250 x 21.2mm	PF5SIHP-250/212		-R	1u	PF10SIHP-250/212	-R	1u	PF15SIHP-250/212	-R	1u
50 x 30.0mm	PF5SIHP-050/300		-R	1u	PF10SIHP-050/300	-R	1u	PF15SIHP-050/300	-R	1u
100 x 30.0mm	PF5SIHP-100/300		-R	1u	PF10SIHP-100/300	-R	1u	PF15SIHP-100/300	-R	1u
150 x 30.0mm	PF5SIHP-150/300		-R	1u	PF10SIHP-150/300	-R	1u	PF15SIHP-150/300	-R	1u
250 x 30.0mm	PF5SIHP-250/300		-R	1u	PF10SIHP-250/300	-R	1u	PF15SIHP-250/300	-R	1u
50 x 50.0mm	PF5SIHP-050/500		-R	1u	PF10SIHP-050/500	-R	1u	PF15SIHP-050/500	-R	1u
250 x 50.0mm	PF5SIHP-250/500		-R	1u	PF10SIHP-250/500	-R	1u	PF15SIHP-250/500	-R	1u

puriFlash® Columns

puriFlash® SIHP

Flash Columns	15µm	RFID	Qty	30µm	RFID	Qty	50µm	RFID	Qty
F0001	SC-15SIHP-F0001	-R	50u	---	-R	---	---	-R	---
F0004	PF-15SIHP-F0004	-R	20u	PF-30SIHP-F0004	-R	40u	PF-50SIHP-F0004	-R	40u
F0012	PF-15SIHP-F0012	-R	20u	PF-30SIHP-F0012	-R	30u	PF-50SIHP-F0012	-R	30u
F0025	PF-15SIHP-F0025	-R	12u	PF-30SIHP-F0025	-R	25u	PF-50SIHP-F0025	-R	25u
F0040	PF-15SIHP-F0040	-R	12u	PF-30SIHP-F0040	-R	20u	PF-50SIHP-F0040	-R	20u
F0080	PF-15SIHP-F0080	-R	4u	PF-30SIHP-F0080	-R	10u	PF-50SIHP-F0080	-R	10u
F0120	PF-15SIHP-F0120	-R	4u	PF-30SIHP-F0120	-R	8u	PF-50SIHP-F0120	-R	8u
F0220	PF-15SIHP-F0220	-R	2u	PF-30SIHP-F0220	-R	4u	PF-50SIHP-F0220	-R	4u
F0330	PF-15SIHP-F0330	-R	2u	PF-30SIHP-F0330	-R	4u	PF-50SIHP-F0330	-R	4u
F0800	---	---	---	PF-30SIHP-F0800	-R	1u	PF-50SIHP-F0800	-R	1u
F1600	---	---	---	PF-30SIHP-F1600	-R	1u	PF-50SIHP-F1600	-R	1u

puriFlash® SIHP - Jumbo pack

Flash Columns	15µm	RFID	Qty	30µm	RFID	Qty	50µm	RFID	Qty
F0004	PF-15SIHP-JP-F0004	-R	80 u	PF-30SIHP-JP-F0004	-R	160u	PF-50SIHP-JP-F0004	-R	160u
F0012	PF-15SIHP-JP-F0012	-R	80 u	PF-30SIHP-JP-F0012	-R	120u	PF-50SIHP-JP-F0012	-R	120u
F0025	PF-15SIHP-JP-F0025	-R	48 u	PF-30SIHP-JP-F0025	-R	100u	PF-50SIHP-JP-F0025	-R	100u
F0040	PF-15SIHP-JP-F0040	-R	48 u	PF-30SIHP-JP-F0040	-R	80u	PF-50SIHP-JP-F0040	-R	80u
F0080	PF-15SIHP-JP-F0080	-R	32 u	PF-30SIHP-JP-F0080	-R	40u	PF-50SIHP-JP-F0080	-R	40u
F0120	PF-15SIHP-JP-F0120	-R	32 u	PF-30SIHP-JP-F0120	-R	32u	PF-50SIHP-JP-F0120	-R	32u
F0220	PF-15SIHP-JP-F0220	-R	8 u	PF-30SIHP-JP-F0220	-R	16u	PF-50SIHP-JP-F0220	-R	16u
F0330	PF-15SIHP-JP-F0330	-R	8 u	PF-30SIHP-JP-F0330	-R	16u	PF-50SIHP-JP-F0330	-R	16u
F0800	---	---	---	PF-30SIHP-JP-F0800	-R	4u	PF-50SIHP-JP-F0800	-R	4u
F1600	---	---	---	PF-30SIHP-JP-F1600	-R	4u	PF-50SIHP-JP-F1600	-R	4u

puriFlash® SIHC

Flash Columns	15µm	RFID	Qty	25µm	RFID	Qty	50µm	RFID	Qty
F0001	SC-15SIHC-F0001	-R	50u	---	---	---	---	---	---
F0004	PF-15SIHC-F0004	-R	20u	PF-25SIHC-F0004	-R	40u	PF-50SIHC-F0004	-R	40u
F0012	PF-15SIHC-F0012	-R	20u	PF-25SIHC-F0012	-R	30u	PF-50SIHC-F0012	-R	30u
F0025	PF-15SIHC-F0025	-R	12u	PF-25SIHC-F0025	-R	25u	PF-50SIHC-F0025	-R	25u
F0040	PF-15SIHC-F0040	-R	12u	PF-25SIHC-F0040	-R	20u	PF-50SIHC-F0040	-R	20u
F0080	PF-15SIHC-F0080	-R	4u	PF-25SIHC-F0080	-R	10u	PF-50SIHC-F0080	-R	10u
F0120	PF-15SIHC-F0120	-R	4u	PF-25SIHC-F0120	-R	8u	PF-50SIHC-F0120	-R	8u
F0220	PF-15SIHC-F0220	-R	2u	PF-25SIHC-F0220	-R	4u	PF-50SIHC-F0220	-R	4u
F0330	PF-15SIHC-F0330	-R	2u	PF-25SIHC-F0330	-R	4u	PF-50SIHC-F0330	-R	4u
F0800	---	---	---	PF-25SIHC-F0800	-R	1u	PF-50SIHC-F0800	-R	1u
F1600	---	---	---	PF-25SIHC-F1600	-R	1u	PF-50SIHC-F1600	-R	1u

puriFlash® SIHC - Jumbo pack

Flash Columns	15µm	RFID	Qty	25µm	RFID	Qty	50µm	RFID	Qty
F0004	PF-15SIHC-JP-F0004	-R	80u	PF-25SIHC-JP-F0004	-R	160u	PF-50SIHC-JP-F0004	-R	160u
F0012	PF-15SIHC-JP-F0012	-R	80u	PF-25SIHC-JP-F0012	-R	120u	PF-50SIHC-JP-F0012	-R	120u
F0025	PF-15SIHC-JP-F0025	-R	48u	PF-25SIHC-JP-F0025	-R	100u	PF-50SIHC-JP-F0025	-R	100u
F0040	PF-15SIHC-JP-F0040	-R	48u	PF-25SIHC-JP-F0040	-R	80u	PF-50SIHC-JP-F0040	-R	80u
F0080	PF-15SIHC-JP-F0080	-R	16u	PF-25SIHC-JP-F0080	-R	40u	PF-50SIHC-JP-F0080	-R	40u
F0120	PF-15SIHC-JP-F0120	-R	16u	PF-25SIHC-JP-F0120	-R	32u	PF-50SIHC-JP-F0120	-R	32u
F0220	PF-15SIHC-JP-F0220	-R	8u	PF-25SIHC-JP-F0220	-R	16u	PF-50SIHC-JP-F0220	-R	16u
F0330	PF-15SIHC-JP-F0330	-R	8u	PF-25SIHC-JP-F0330	-R	16u	PF-50SIHC-JP-F0330	-R	16u
F0800	---	---	---	PF-25SIHC-JP-F0800	-R	4u	PF-50SIHC-JP-F0800	-R	4u
F1600	---	---	---	PF-25SIHC-JP-F1600	-R	4u	PF-50SIHC-JP-F1600	-R	4u

puriFlash® Columns

puriFlash® NH2

LC Preparative Columns		5µm	RFID	Qty	10µm	RFID	Qty	15µm	RFID	Qty
250 x 4.6mm	PF5NH2-250/P46	-R	1u	PF10NH2-250/P46	-R	1u	PF15NH2-250/P46	-R	1u	1u
150 x 10.0mm	PF5NH2-150/100	-R	1u	PF10NH2-150/100	-R	1u	PF15NH2-150/100	-R	1u	1u
250 x 10.0mm	PF5NH2-250/100	-R	1u	PF10NH2-250/100	-R	1u	PF15NH2-250/100	-R	1u	1u
50 x 21.2mm	PF5NH2-050/212	-R	1u	PF10NH2-050/212	-R	1u	PF15NH2-050/212	-R	1u	1u
100 x 21.2mm	PF5NH2-100/212	-R	1u	PF10NH2-100/212	-R	1u	PF15NH2-100/212	-R	1u	1u
150 x 21.2mm	PF5NH2-150/212	-R	1u	PF10NH2-150/212	-R	1u	PF15NH2-150/212	-R	1u	1u
250 x 21.2mm	PF5NH2-250/212	-R	1u	PF10NH2-250/212	-R	1u	PF15NH2-250/212	-R	1u	1u
50 x 30.0mm	PF5NH2-050/300	-R	1u	PF10NH2-050/300	-R	1u	PF15NH2-050/300	-R	1u	1u
100 x 30.0mm	PF5NH2-100/300	-R	1u	PF10NH2-100/300	-R	1u	PF15NH2-100/300	-R	1u	1u
150 x 30.0mm	PF5NH2-150/300	-R	1u	PF10NH2-150/300	-R	1u	PF15NH2-150/300	-R	1u	1u
250 x 30.0mm	PF5NH2-250/300	-R	1u	PF10NH2-250/300	-R	1u	PF15NH2-250/300	-R	1u	1u
50 x 50.0mm	PF5NH2-050/500	-R	1u	PF10NH2-050/500	-R	1u	PF15NH2-050/500	-R	1u	1u
250 x 50.0mm	PF5NH2-250/500	-R	1u	PF10NH2-250/500	-R	1u	PF15NH2-250/500	-R	1u	1u

Flash Columns		15µm	RFID	Qty	30µm	RFID	Qty	50µm	RFID	Qty
F0004	PF-15NH2-F0004	-R	4u	PF-30NH2-F0004	-R	4u	PF-50NH2-F0004	-R	4u	4u
F0012	PF-15NH2-F0012	-R	2u	PF-30NH2-F0012	-R	2u	PF-50NH2-F0012	-R	2u	2u
F0025	PF-15NH2-F0025	-R	1u	PF-30NH2-F0025	-R	1u	PF-50NH2-F0025	-R	1u	1u
F0040	PF-15NH2-F0040	-R	1u	PF-30NH2-F0040	-R	1u	PF-50NH2-F0040	-R	1u	1u
F0080	PF-15NH2-F0080	-R	1u	PF-30NH2-F0080	-R	1u	PF-50NH2-F0080	-R	1u	1u
F0120	PF-15NH2-F0120	-R	1u	PF-30NH2-F0120	-R	1u	PF-50NH2-F0120	-R	1u	1u
F0220	PF-15NH2-F0220	-R	1u	PF-30NH2-F0220	-R	1u	PF-50NH2-F0220	-R	1u	1u
F0330	PF-15NH2-F0330	-R	1u	PF-30NH2-F0330	-R	1u	PF-50NH2-F0330	-R	1u	1u
F0800	---	---	---	PF-30NH2-F0800	-R	1u	PF-50NH2-F0800	-R	1u	1u
F1600	---	---	---	PF-30NH2-F1600	-R	1u	PF-50NH2-F1600	-R	1u	1u

puriFlash® NH2HC

Flash Columns		50µm	RFID	Qty
F0004	PF-50NH2HC-F0004	-R	4u	
F0012	PF-50NH2HC-F0012	-R	2u	
F0025	PF-50NH2HC-F0025	-R	1u	
F0040	PF-50NH2HC-F0040	-R	1u	
F0080	PF-50NH2HC-F0080	-R	1u	
F0120	PF-50NH2HC-F0120	-R	1u	
F0220	PF-50NH2HC-F0220	-R	1u	
F0330	PF-50NH2HC-F0330	-R	1u	
F0800	PF-50NH2HC-F0800	-R	1u	
F1600	PF-50NH2HC-F1600	-R	1u	



RFID Columns
add [-R] at the end of P/N

puriFlash® Dry-Load

Solid Sample

Dry injection



Allow to large sample amounts

High pressure dry-load



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 the resolution, the efficiency and the purity of the products collected.

The solid deposit that can be made with silica, C18 or Celite. Unlike open cartridges, it does not require the use of a piston or of specific adapters.

The max. pressure is 2x the standard solid deposit cartridges.

They are compatible with the use of Interchim® 15µm puriFlash® columns.

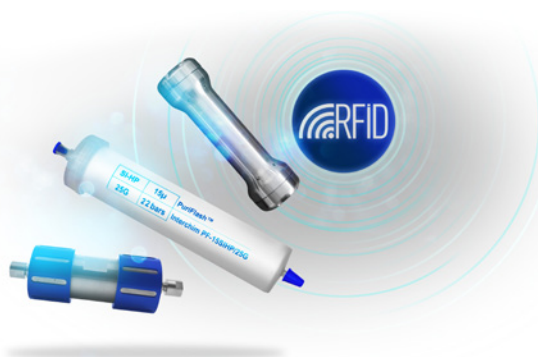
- Compatible with all purification systems

puriFlash® Dry-Load

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

High-Pressure Dry-Load

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



Purification using PF-15C18HP-150/212

1. Analytical conditions

Solvents: A: Water

B: Acetonitrile (0.1% Formic acid)

HPLC Column: Waters Acquity BEH C18 250x4.6mm 1.7µm

Flow rate: 1mL/min

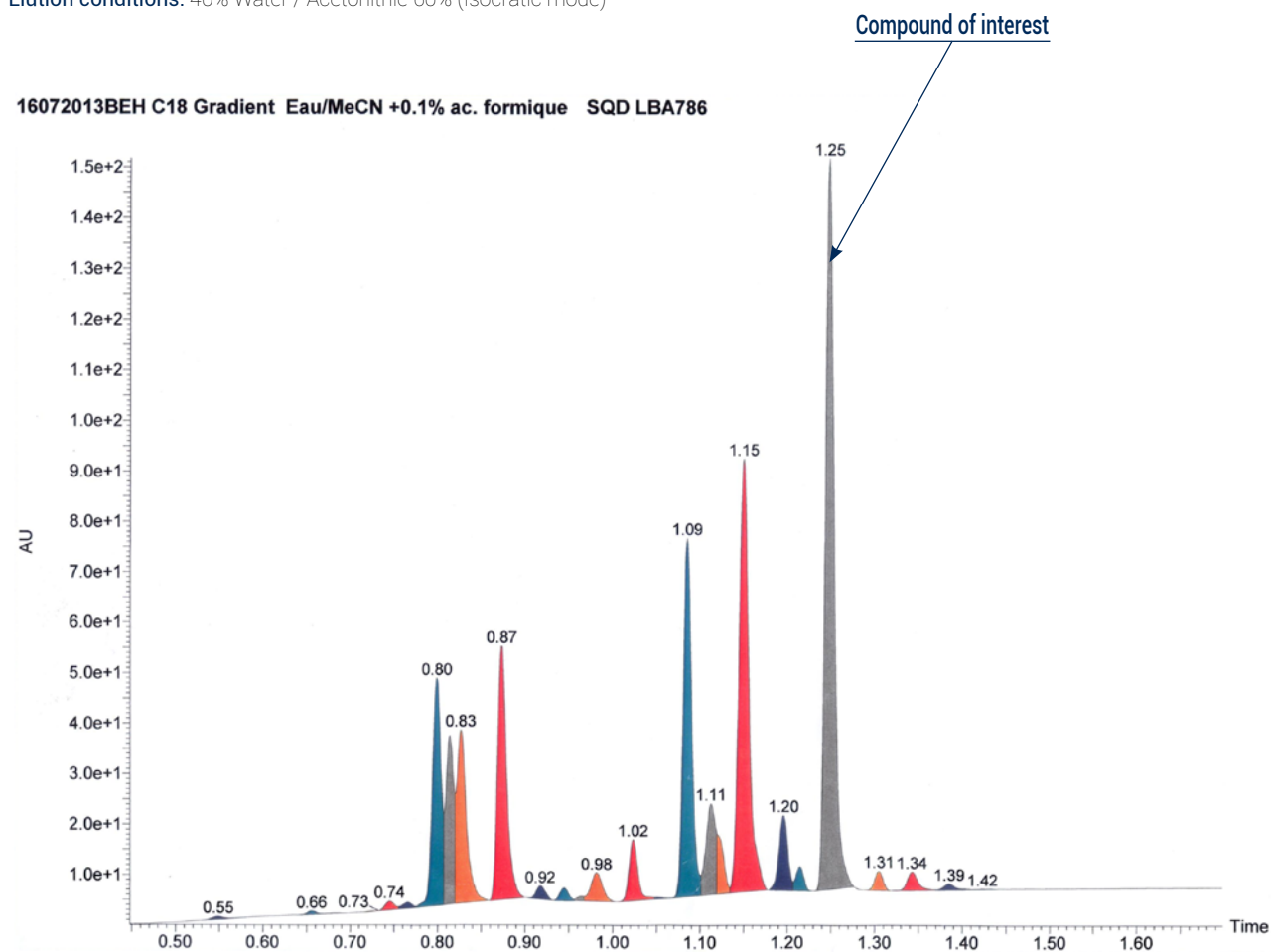
Injection mode: Liquid injection

Injection volume: 10µL

Concentration: 0.5mg/mL in Acetonitrile

Detection: UV 315nm

Elution conditions: 40% Water / Acetonitrile 60% (Isocratic mode)



2. Prep conditions

Device: puriFlash® 4250 (or now puriFlash® 5.250)

Solvents: A: Water

B: Acetonitrile (0.1% Formic acid)

Column: PF15C18HP-150/212

Flow rate: 20mL/min

Injection mode: Liquid injection

Crude sample: 100mg

Detection: UV 315nm (black),

Scan 200-600nm (orange)

Pressure: 7bar

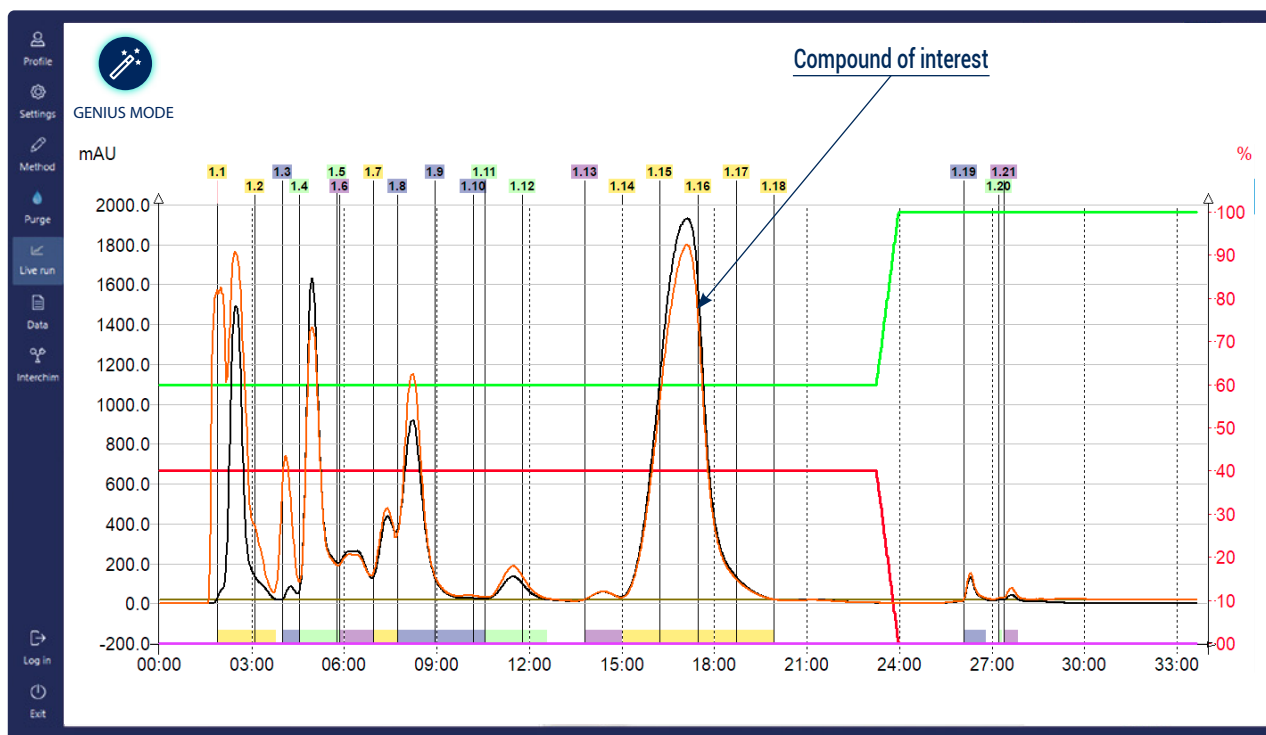
Elution conditions:

t (min)	A (%)	B (%)
00:00	40	60
23:00	40	60
24:00	0	100
29:00	0	100



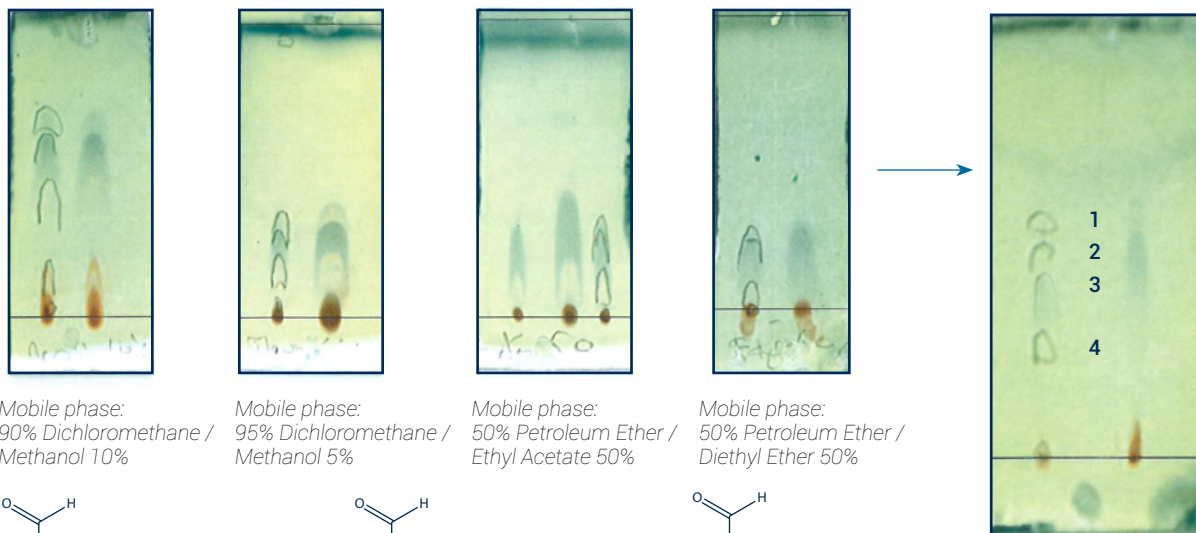
puriFlash® 5.250

Small, but Limitless
250mL/min@up to 250bar



Purification of mixture using PF-15SIHP-F0025

1. TLC method development

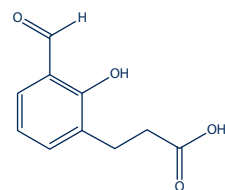


Mobile phase:
90% Dichloromethane /
Methanol 10%

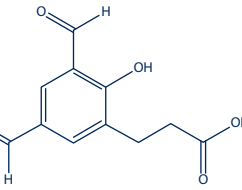
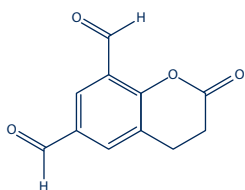
Mobile phase:
95% Dichloromethane /
Methanol 5%

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

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



Close side products



Compound of interest

Mobile phase:
90% Dichloromethane /
Methanol 10%

Compound of interest:
compound 3

2. Choice of the column according to the ΔCV & crude sample mass

Crude sample: 47mg

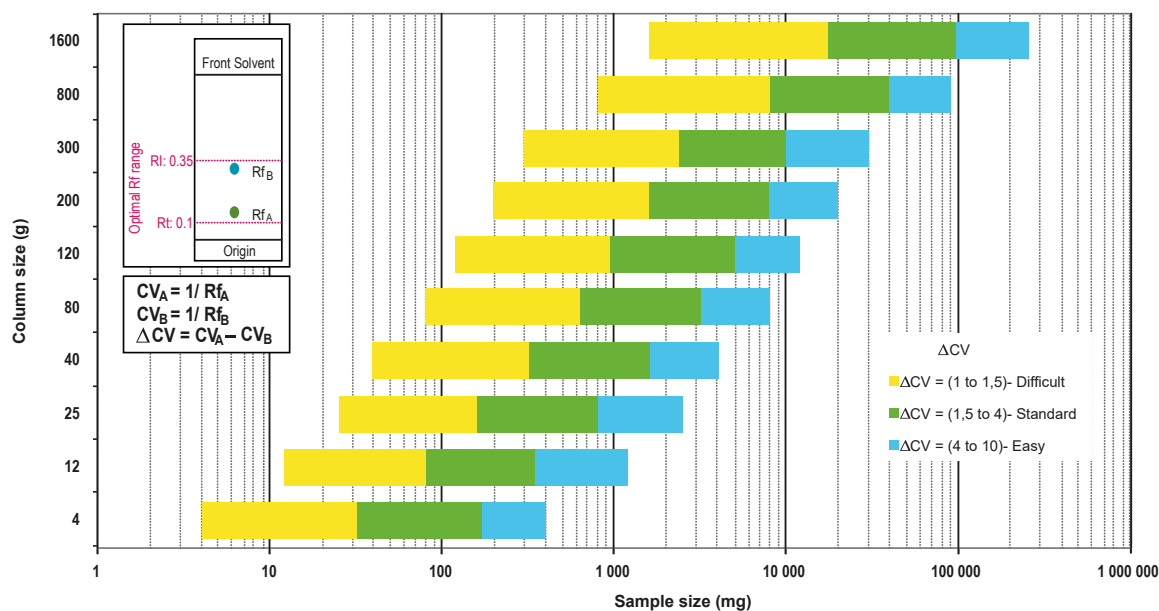
Column: PF-15SIHP-F0025

Loading capacity: 0.25%

Compound	Rf	CV
1	0.49	2.04
2	0.43	2.33
3	0.34	2.94
4	0.22	4.54

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

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 420 Plus (or now puriFlash® XS 520 Plus)

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

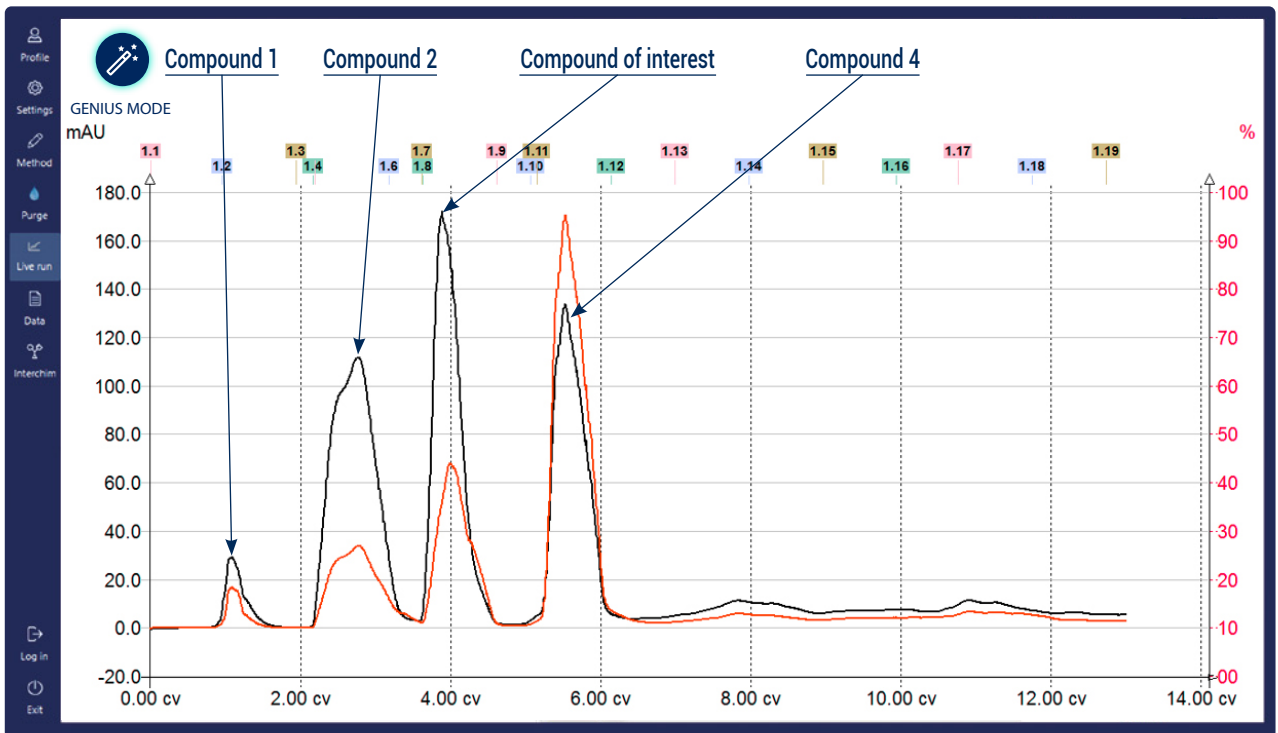
Pressure: 1bar

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



1. Analytical conditions

Solvents: A: Water + 0.1%TFA

B: Acetonitrile + 0.1% TFA

HPLC Column: puriFlash® BIO 100 C18-N 15µm 250x4.6mm

Flow rate: 1mL/min

Injection mode: Liquid injection

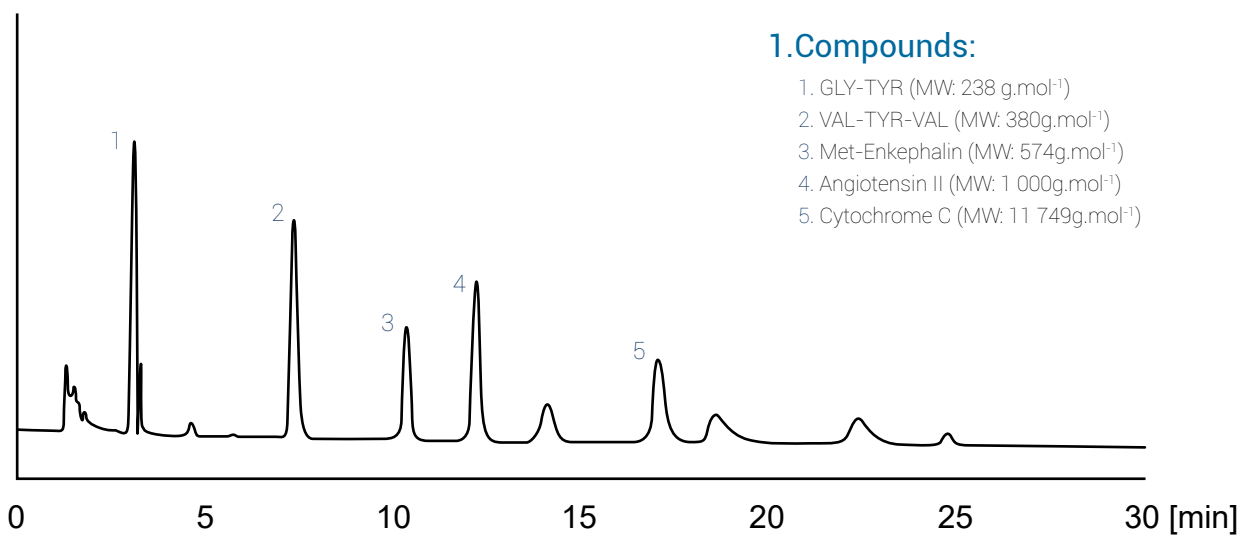
Injection volume: 10µL

Concentration: Mixture of Peptide standard (0.25mg/mL) and Protein standard (0.5mg/mL)

Detection: UV 215nm

Elution conditions:

t (min)	A (%)	B (%)
00:00	95	5
30:00	60	40



2. Flash conditions

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

Solvents: A: Water + 1% TFA
B: Acetonitrile + 0.1%TFA

Column: puriFlash® Monolith C18 30µm F0025 (PM-30C18-F0025)

Flow rate: 15mL/min & 80mL/min

Injection mode: Liquid injection

Injection volume: 150µL

Crude sample: 9mg

Detection: UV 254nm (black),
UV 215nm (orange)

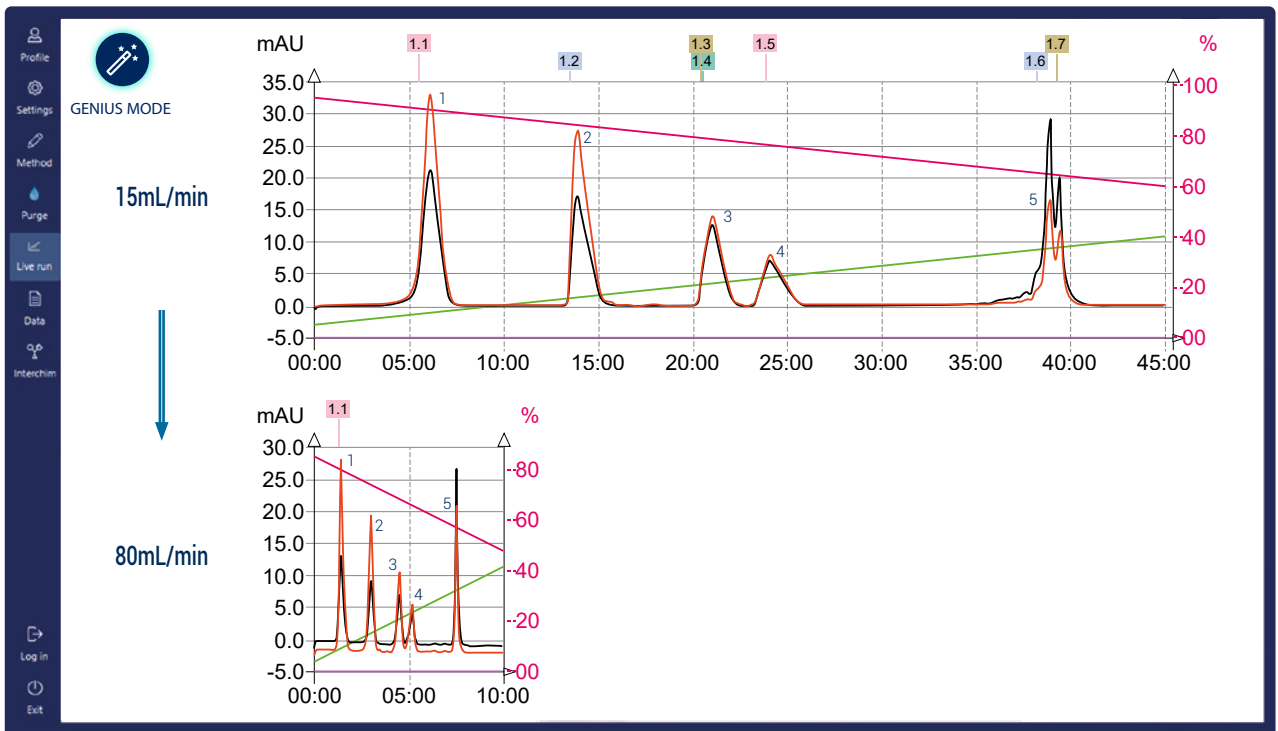
Pressure: 2bar

Elution conditions:

t (min)	A (%)	B (%)
00:00	95	5
45:00	60	40



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





Ultra Performance
Flash Purification
Catalog
2018-20 Edition



.pdf

<http://www.interchim.com/UPFP-Gen5.php>



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-chromatographie.com

