

# MAXIMIZE THE ACCURACY OF YOUR RESULTS WITH MINIMAL TIME AND EFFORT

## Agilent Captiva Syringe Filters



Now more than ever, chromatographers are using filtration to help meet their unrelenting analytical demands and uncompromising expectations for quality, speed, and reproducibility.

For years, Agilent has understood that filtering samples prior to HPLC, UHPLC, and LC/MS analysis can improve both system performance and analytical quality—and this experience is reflected in our new line of Captiva syringe filters.

### Performance begins here: Now you can improve accuracy without adding time to the chromatography process

Like all Agilent filtration products, Agilent Captiva syringe filters are developed by chromatographers *for* chromatographers. Their advantages include:

- **More choices:** Agilent Captiva filtration products are available in a wide range of sizes, formats, and membranes to cover every matrix and sample.
- **Certified cleanliness:** All Captiva Premium Syringe Filters are shipped with an HPLC or LC/MS Certificate that *guarantees* extremely low levels of observed extractables.
- **Top performance:** Every syringe filter is manufactured using the highest-grade housing and membrane materials for excellent flow, maximum sample loading capacity, and to ensure sample integrity.
- **Economical:** Our high-quality Econofilters are shipped in large packs, and are ideal for busy labs that need fast, efficient filtration at a reasonable price.

For optimal performance, column lifetime, and sample integrity, you can count on Agilent—the world chromatography leader—to help you improve your productivity.

Sample filtration prior to HPLC, UHPLC, and LC/MS analysis is critical to achieving optimal system performance.

Agilent Captiva syringe filters make the process faster than ever with the industry's highest flow rates and loading capacities.

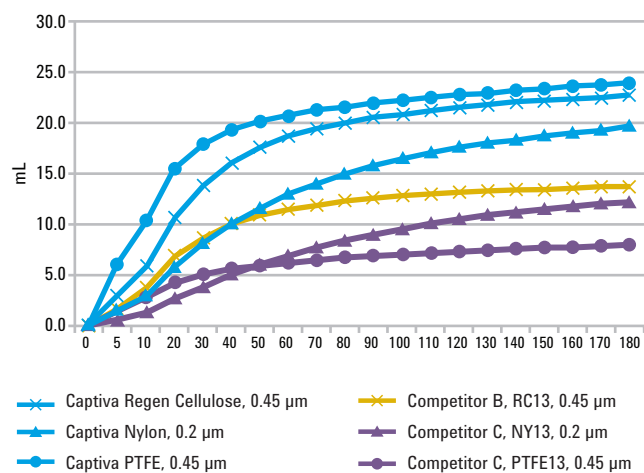


## Proof that Agilent Captiva syringe filters can improve speed, resolution, and column life

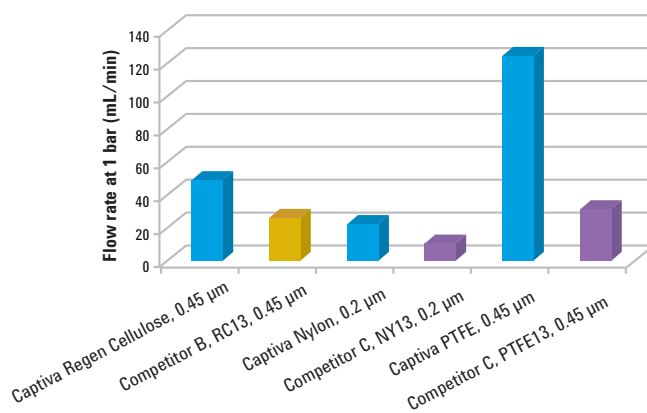
Still not filtering your samples? You should be. That's because even small amounts of injected particulates can cause problems such as inlet clogging, increased backpressure, retention time shift, resolution loss, and shorter column life. This is especially true for high-pressure sub-2  $\mu\text{m}$  columns, which are more sensitive to pressure increases.

### Captiva Premium Syringe Filters provide incomparable loading capacity with the fastest flow rates in the market today.

Capacity (volume) of 15 mm syringe filters over time with particulate-laden samples



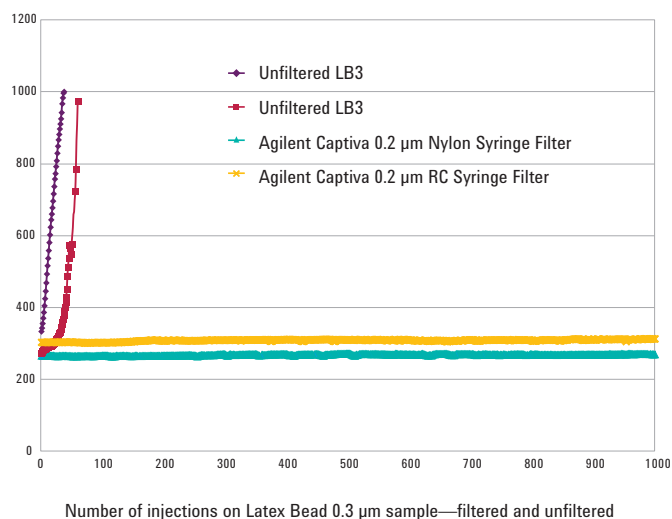
### Flow rate for 15 mm Captiva Premium Syringe Filters



**Maximum flow rate and volume capacity:** As you can see above, Agilent Captiva syringe filters combine incomparable loading capacity with the industry's fastest flow rates to ensure maximum efficiency.

## Sample filtration prior to HPLC analysis demonstrated significant improvement on column lifetime.

Filtration impact on sub-2  $\mu\text{m}$  column A by Latex Bead  
0.3  $\mu\text{m}$  solution: Effects on filtration on sub-2  $\mu\text{m}$  column life



**No increase in backpressure:** a 0.05% latex-sphere solution was filtered through Agilent Captiva syringe filters. Note that the column backpressure did not increase – even after 1000 injections. In addition, the clear effluents from the filters suggest a successful retention of latex spheres.



## From sample prep to separation... Agilent keeps you in command of your analyses

Agilent CrossLab services, software, and supplies are designed to support every instrument brand in your lab.

Find out more at:

[www.agilent.com/chem/crosslabsolutions](http://www.agilent.com/chem/crosslabsolutions)

### Money-saving Agilent Captiva Econofilters

Our high-quality Econofilters are shipped in large packs, and are ideal for busy labs that need fast, efficient filtration at a reasonable price.

Learn more:

[www.agilent.com/chem/filtration](http://www.agilent.com/chem/filtration)

### Agilent Captiva filtration products for every matrix and sample

- **Captiva Single Tube ND and Captiva ND Lipids** accept larger sample sizes than filter plates and syringe filters. Ideal for removing particulates, proteins, and lipids.
- **Captiva ND non-drip filter plates** deliver particulate-free, protein-precipitated samples five times faster than centrifugation.
- **Captiva ND Lipids non-drip filter plates** remove ion-suppressing lipids for lipid and protein depletion.
- **Captiva filter cartridges and plates** remove precipitated proteins and other particulates from your sample prior to LC/MS, using standard SPE cartridge and plate formats.

### Agilent sample prep products keep your methods safe and minimize contamination

Agilent's complete line of sample preparation products provide essential filtration, purification and SPE cleanup to ensure less instrument contamination and more robust, reliable methods.

Combine robust sample preparation technology with Agilent's comprehensive selection of LC columns, to achieve superior method performance, including the sensitivity, accuracy, and reliability that demanding applications require.

Learn more:

[www.agilent.com/chem/lccolumns](http://www.agilent.com/chem/lccolumns)

### Ensuring peak performance and productivity with Agilent supplies

- Agilent offers an extensive portfolio of supplies for GC, LC, MS, and atomic and molecular spectroscopy.
- Agilent CrossLab features a range of GC and HPLC supplies for both Agilent and non-Agilent instruments.
- Maximize your lab's productivity and performance with A-Line LC fittings, Ultra Inert GC supplies, and other innovative technologies from Agilent.

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[www.agilent.com/chem/supplies](http://www.agilent.com/chem/supplies)



Our **Syringe Filter Online Selection Guide** makes it fast and easy to choose the best syringe filter for your application. Try it now at:

[www.agilent.com/chem/selectfilters](http://www.agilent.com/chem/selectfilters)

## Your time is precious... and so is your sample

High-quality Agilent Captiva syringe filters arrive ready to use—and are tested and certified to be free of UV-absorbing substances. So you can be confident that extractables or other contaminants will not damage the integrity of your samples.

### Ordering Information:

#### Premium Filters, 100/pk

Description	Diameter (mm)	Pore Size (µm)	Certification	Housing	Part No.
PTFE	4	0.2	LC	Polypropylene	5190-5082
	4	0.45	LC	Polypropylene	5190-5083
	15	0.2	LC	Polypropylene	5190-5084
	15	0.45	LC	Polypropylene	5190-5085
	25	0.2	LC	Polypropylene	5190-5086
	25	0.45	LC	Polypropylene	5190-5087
Nylon	15	0.2	LC	Polypropylene	5190-5088
	15	0.45	LC	Polypropylene	5190-5091
	25	0.2	LC	Polypropylene	5190-5092
	25	0.45	LC	Polypropylene	5190-5093
PES	4	0.45	LC/MS	Polypropylene	5190-5095
	4	0.2	LC/MS	Polypropylene	5190-5094
	15	0.2	LC/MS	Polypropylene	5190-5096
	15	0.45	LC	Polypropylene	5190-5097
	25	0.2	LC/MS	Polypropylene	5190-5098
	25	0.45	LC	Polypropylene	5190-5099
Regenerated cellulose	4	0.2	LC	Polypropylene	5190-5106
	4	0.45	LC	Polypropylene	5190-5107
	15	0.2	LC	Polypropylene	5190-5108
	15	0.45	LC	Polypropylene	5190-5109
	25	0.2	LC	Polypropylene	5190-5110
	25	0.45	LC	Polypropylene	5190-5111
Cellulose acetate	28	0.2	LC	MBS	5190-5116
	28	0.45	LC	MBS	5190-5117
Glass microfiber	15	n/a	LC/MS	Polypropylene	5190-5120
	28	n/a	LC	MBS	5190-5122

#### Layered Filters, 100/pk

Description	Diameter (mm)	Pore Size (µm)	Certification	Housing	Part No.
Glass microfiber/PTFE	15	0.2	LC	Polypropylene	5190-5126
	15	0.45	LC	Polypropylene	5190-5127
	25	0.2	LC	Polypropylene	5190-5128
	25	0.45	LC	Polypropylene	5190-5129
Glass microfiber/Nylon	15	0.2	LC	Polypropylene	5190-5132
	15	0.45	LC	Polypropylene	5190-5133
	25	0.2	LC	Polypropylene	5190-5134
	25	0.45	LC	Polypropylene	5190-5135

#### Captiva Disposable Syringes, 100/pk

Volume	Part No.
5 mL	9301-6476
10 mL	9301-6474
20 mL	5190-5103

#### Econofilters, 1000/pk

Description	Diameter (mm)	Pore Size (µm)	Housing	Part No.
PVDF	13	0.2	Polypropylene	5190-5261
	13	0.45	Polypropylene	5190-5262
	25	0.2	Polypropylene	5190-5263
	25	0.45	Polypropylene	5190-5264
PTFE	13	0.2	Polypropylene	5190-5265
	13	0.45	Polypropylene	5190-5266
	25	0.2	Polypropylene	5190-5267
	25	0.45	Polypropylene	5190-5268
Nylon	13	0.2	Polypropylene	5190-5269
	13	0.45	Polypropylene	5190-5270
	25	0.2	Polypropylene	5190-5271
	25	0.45	Polypropylene	5190-5272
PES	13	0.2	Polypropylene	5190-5273
	13	0.45	Polypropylene	5190-5274
	25	0.2	Polypropylene	5190-5275
	25	0.45	Polypropylene	5190-5276
Polypropylene	13	0.2	Polypropylene	5190-5277
	13	0.45	Polypropylene	5190-5278
	25	0.2	Polypropylene	5190-5279
	25	0.45	Polypropylene	5190-5280
	Regenerated Cellulose (Premium Grade)	15	0.2	Polypropylene
	15	0.45	Polypropylene	5190-5308
	25	0.2	Polypropylene	5190-5309
	25	0.45	Polypropylene	5190-5307

To learn more about Agilent Captiva filtration products, or to buy now, go to:  
[www.agilent.com/chem/filtration](http://www.agilent.com/chem/filtration)

You can also contact your local Agilent representative or Agilent authorized distributor at:  
[www.agilent.com/chem/contactus](http://www.agilent.com/chem/contactus)

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