Millipore®
Filtration, Separation
& Preparation

Samplicity® G2 Filtration System for HPLC Samples

The better way to use Millex® filters



DOMINIQUE DUTSCHER SAS

The life science business of Merck operates as
MilliporeSigma in the U.S. and Canada.

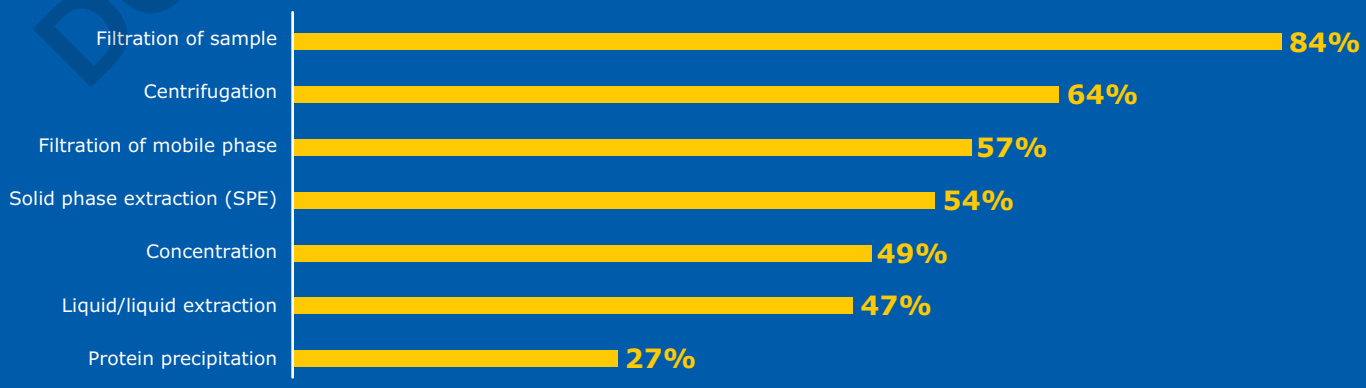
MERCK



HPLC sample filtration is here to stay.

According to a 2015 survey by LC/GC magazine, sample filtration was performed by a larger percentage of separation scientists than extraction, centrifugation, precipitation, or concentration*.

With downstream detection methods becoming more and more sensitive to particulate contamination, filtration is as crucial as ever.



*Based on survey of 413 respondents. Each respondent was asked to choose multiple methods that they were currently using.

DOMINIQUE DUTSCHER SAS

DOMINIQUE DUTSCHER SAS

Love Millex® filters, but have tired thumbs?



For chromatographers who filter dozens of samples a day through Millex® syringe filters, especially for hard-to-filter, viscous or particulate-laden samples, traditional filtration can lead to manual fatigue, and even repetitive stress injury. Nevertheless, they stick with Millex® filters, which are specified in numerous analytical methods and standard operating procedures.

Introducing the Samplicity® G2 Filtration System for Millex® Filters.

By adding a simple adapter funnel to standard Millex® 33 mm filters, we've enabled easy, vacuum-driven filtration of up to 8 samples at once, directly into HPLC vials, in seconds.

Look up the Millex® 33 mm filters you use for manual syringe filtration in the table below to find the corresponding Samplicity® G2 filter catalog numbers.

Millex® Filter Description	Catalog No.* (Manual)	Catalog No. (Samplicity® G2 system)
Millex® Filters for the Samplicity® G2 System, 0.22 µm Durapore® PVDF	SLGV033N-	SAMP2GVNB
Millex® Filters for the Samplicity® G2 System, 0.45 µm Durapore® PVDF	SLHV033N-	SAMP2HVNB
Millex® Filters for the Samplicity® G2 System, 0.22 µm Millipore Express® PLUS PES	SLGP033N-	SAMP2GPNB
Millex® Filters for the Samplicity® G2 System, 0.45 µm Millipore Express® PLUS PES	SLHP033N-	SAMP2HPNB
Millex® Filters for the Samplicity® G2 System, 0.20 µm Nylon	SLGN033N-	SAMP2GNNB
Millex® Filters for the Samplicity® G2 System, 0.45 µm Nylon	SLHN033N-	SAMP2HNNB

*The last character of the Millex® part number represented by the "-" may be an S, K, or B.

80%

of chromatographers report using Merck filters for sample filtration

Enjoy the Quality of Millex® Filters.

You trust Millex® filters for HPLC sample prep because of our highest quality design, manufacturing, materials and QC standards.

Millex® filters are known for their:

- Minimal hold-up volume
- Filter and seal integrity
- Low extractables, low binding

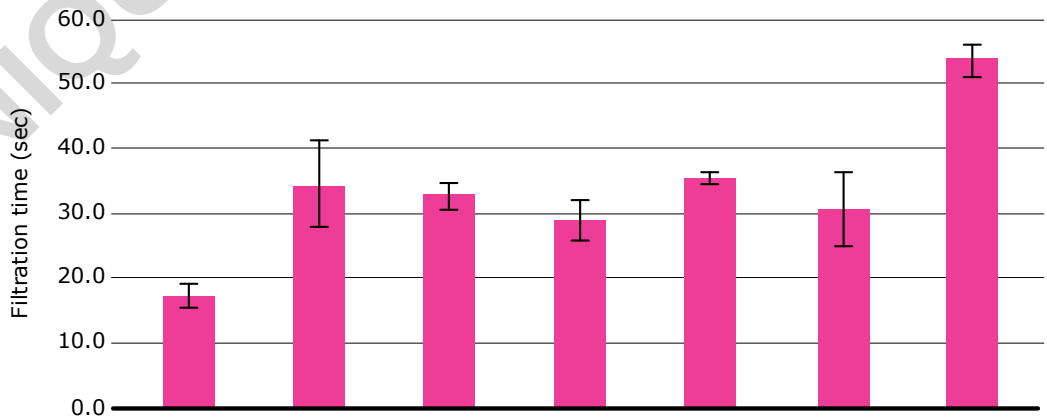
Millex® filters are available in a variety of membranes and polypropylene housings to ensure chemical compatibility with a range of samples and solvents.

The adapter funnels provided for the Samplicity® G2 system are made of the same polypropylene as our Millex® filter housings. Together, the filter plus adapter are HPLC-certified to be low in extractable impurities. That means you'll continue to enjoy clear chromatography results, without the pain of syringe filtration.

Experience the efficient way to use Millex® filters: vacuum filtration.

Any process that uses Millex® 33 mm filters can now be performed using the vacuum-driven, time-saving, Samplicity® G2 filtration system – even for small-volume (as little as 300 µL) or hard-to-filter samples.

If manual filtration is used, hard-to-filter samples can require excessive manual force, greater time per sample, and can yield lower recovery — all of which may reduce laboratory efficiency. In contrast, the Samplicity® G2 filtration system filters even highly viscous samples in seconds, with minimal manual effort.



	Pepto Bismol®	Tomato juice	Calamine/ diphenhy-dramine lotion	Honey	Milk of magnesia	Italian dressing	Chocolate syrup
Filtration time (sec)	17.3	34.5	32.8	29	35.5	30.8	53.8
Concentration	2%	75%	5%	75%	100%	25%	50%
Avg. viscosity (cP)	2.3	90.1	510	47.1	10088	12.1	147.6

Hard to filter? No More! Efficient filtration of viscous samples using the Samplicity® filtration system with 0.45 µm PVDF Millex Samplicity® Filters. Filtration times for 1 mL of indicated samples are shown. Results represent the average of four filtrations, and error bars represent standard deviation.

DOMINIQUE DUTSCHER SAS



DOMINIQUE DUTSCHER SAS

Save your thumbs.

According to a Baseline Risk Identification of Ergonomic Factors (BRIEF™) survey, the Samplicity® G2 system reduced the ergonomic impact of filtration compared to manual syringe filtration, as shown in the chart below.

Samplicity® G2 System has lower ergonomic impact than manual syringe filtration

	Job Hazard Score		
Sample Type	Low (0-9)	Medium (10-29)	High (30-49)
Syringe Filtration of Non-viscous Sample (water)		12.8	
Syringe Filtration of Viscous Sample (16% ketchup)		16.0	
Samplicity® G2 System Filtration of Viscous Sample (16% ketchup)	8.0		

*For reference, a task involving manipulating a heavy (13 kg) tool was found to have a medium/high job hazard score of 27.
Note that the job hazard score for Samplicity® G2 remains at 8 regardless of the viscosity of the sample.



Ultra-convenience

In addition to our Millex® 33 mm syringe filters, Millex Samplicity® filters for the Samplicity® G2 system take convenience in sample filtration one step further. These all-in-one filters feature:

- Integrated funnels for easiest sample loading
- Filters in perforated strips of 4 for fastest setup
- Quality membrane options, including PVDF (0.45 µm), hydrophilic PTFE (0.45 µm) and hydrophilic PTFE (0.2 µm)



See it in action: Samplicity® G2 Videos

Watch a quick video how-to, plus a side-by-side comparison with syringe filtration.

Just visit:
www.merckmillipore.com/samplicity

DOMINIQUE DUTSCHER SAS

Ordering information for the Samplicity® G2 System

Millex® Filter Description	Quantity	Catalog No. (Samplicity® G2 system)
Millex® Filters for the Samplicity® G2 System, 0.22 µm Durapore® PVDF	250	SAMP2GVNB
Millex® Filters for the Samplicity® G2 System, 0.45 µm Durapore® PVDF	250	SAMP2HVNB
Millex® Filters for the Samplicity® G2 System, 0.22 µm Millipore Express® PLUS PES	250	SAMP2GPNB
Millex® Filters for the Samplicity® G2 System, 0.45 µm Millipore Express® PLUS PES	250	SAMP2HPNB
Millex® Filters for the Samplicity® G2 System, 0.20 µm Nylon	250	SAMP2GNNB
Millex® Filters for the Samplicity® G2 System, 0.45 µm Nylon	250	SAMP2HNNB
Samplicity® G2 Filtration System, Bold Blue	1	SAMP2SYSB
Samplicity® G2 Filtration System, Glossy Green	1	SAMP2SYSG
Millex Samplicity® Filters, 0.45 µm hydrophilic PTFE	96	SAMPLCR01
Millex Samplicity® Filters, 0.45 µm hydrophilic PTFE	384	SAMPLCR04
Millex Samplicity® Filters, 0.20 µm hydrophilic PTFE	96	SAMPLG001
Millex Samplicity® Filters, 0.20 µm hydrophilic PTFE	384	SAMPLG004
Millex Samplicity® Filters, 0.45 µm hydrophilic PVDF	96	SAMPHV001
Millex Samplicity® Filters, 0.45 µm hydrophilic PVDF	384	SAMPHV004
Samplicity® G2 Lid	1 pk	SAMP2LID
Chemical Duty Pump, 115V/60Hz	1	WP6111560
Chemical Duty Pump, 220V/50Hz	1	WP6122050
Chemical Duty Pump, 100V/50-60Hz	1	WP6110060

*Note: Millex® filters are available in packs of 1000. Please visit: **www.merckmillipore.com**

DOMINIQUE DUTSCHER SAS

Upgrade your current Samplicity® filtration system to the Samplicity® G2 model!

Get all the support you need for the HPLC workflow.

- Sample preparation
- Columns
- Mobile phases
- Technical information

Visit: **www.merckmillipore.com/hplc-workflow**



DOMINIQUE DUTSCHER SAS

To place an order or receive technical assistance

In Europe, please call Customer Service:
France: 0825 045 645
Germany: 069 86798021
Italy: 848 845 645
Spain: 901 516 645 Option 1
Switzerland: 0848 645 645
United Kingdom: 0870 900 4645
For other countries across Europe,
please call: +44 (0) 115 943 0840

Or visit: **www.merckmillipore.com/offices**

For Technical Service visit:
www.merckmillipore.com/techservice

MerckMillipore.com

Merck and the vibrant M are trademarks of Merck KGaA, Darmstadt, Germany and its affiliates.
Millipore, Durapore, Millex, Millipore Express, Samplicity and Millex Samplicity are registered trademarks of Merck KGaA, Darmstadt, Germany and its affiliates.
Lit. No. PB1503ENEU BS-GEN-16-12895 07/16 Copyright © 2016 EMD Millipore Corporation. All Rights Reserved.