CellTrics®
Preparing cell suspensions without strain

Innovative cell strainers for rapid sample preparation

For sterile and non-sterile use

www.sysmex-flowcytometry.com

Clear goals require homogeneous samples

Preparing great samples for cell culture or measurement by flow cytometry or cell separation columns is not as easy as it may sound. There are two main things you have to get right. Minimising interference and noise, and separating the distinct cell populations. But how?

The aim is to remove tissue debris, aggregates and artefacts, and to single out the cells you want so you can deliver a homogeneous cell suspension. For ploidy analysis, it would mean an efficient isolation of cell nuclei. This way, your measurement results will meet the accuracy you require. You apply the same sort of diligence for generating successful cell cultures – whether stem, blood or neuronal cell, and for then determining quantitative results. To achieve all of the above you need a great cell strainer.

Your cell material is valuable – don't lose it!

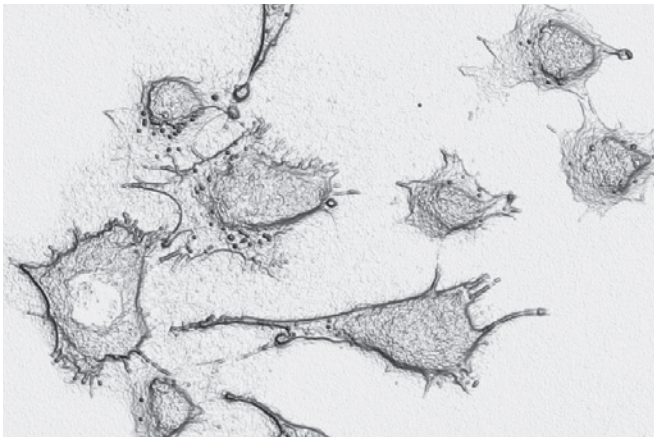
A key challenge with any strainer, or filter, is inherent in the name – the sample has to pass through the filtering device without losing too much of it. You must avoid overflows and too much residue forming above the mesh. Of course, to avoid it becoming tedious and if you have to handle larger volumes of liquids, it also has to work within an acceptable timeframe.

So overall, you want a device that works quickly and effectively, and is safe and easy to handle. We took all these issues as the basis for developing our CellTrics® cell strainers.

A 'strainer' without the 'strain'

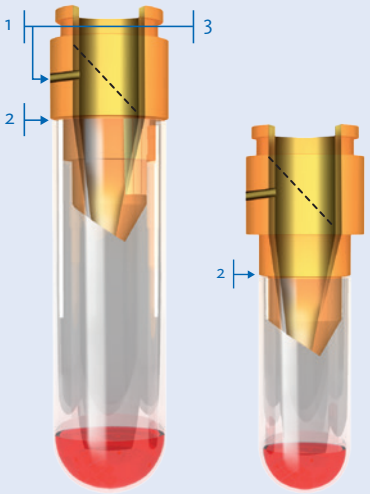
CellTrics® are fast – we have achieved an extremely high flow rate by sloping the filter gauze vertically and adding the patented ventilation hole. This ensures cell filtration is more comprehensive as it minimises cell loss in the residue. It is also gentler on the cells, which do not tend to dry out as much.

To help you prevent spills and allow comfortable pipetting volumes, we added a 2 mL reservoir above the mesh. We also designed the CellTrics® to make sure they fit safely on tubes of different diameters, making them flexible and easy to use. CellTrics® are available in seven different mesh sizes, as sterile and non-sterile versions. And their colour-coding clearly indicates the correct mesh size, so you can easily and safely select the right one to use.



Integrates perfectly in your workflow

CellTrics® fit neatly within your existing workflow. It couldn't really be much easier. First prepare your sample suspension as usual (from tissue, fluids, plant material, etc.). Then select the mesh size you need, place the CellTrics® disposable filter on a sample tube of your choice and filter the sample suspension directly into the sample tube. Lastly, just place the sample tube on a flow cytometer or cell sorter for measurement, or proceed with the sample for cell culture.



1 Vertically sloped filter gauze and ventilation hole deliver an extremely high flow rate. The filter gauze is made from high-quality unifilar polyamide or polyester.
2 Fits safely on 3 – 15 mL tubes of different diameters thanks to two different rest areas.
3 2 mL sample reservoir above the filter gauze delivers comfortable filtration of larger volumes.

United States Patent Number: 5,861,094

Specifications CellTrics®

- Disposable strainers available in sterile (single-packed) and non-sterile versions
- Available in seven different mesh sizes – 5 (upon request), 10, 20, 30, 50, 100 and 150 µm – to find the optimal diameter for your samples
- Colour coding lets you easily differentiate between mesh size:

black	10 µm
red	20 µm
green	30 µm
yellow	50 µm
blue	100 µm
white	150 µm

Order number	Type	Colour	Quantity
	non-sterile		
04-0042-2314	CellTrics® 10 µm	black	250 pcs.
04-0042-2315	CellTrics® 20 µm	red	250 pcs.
04-0042-2316	CellTrics® 30 µm	green	250 pcs.
04-0042-2317	CellTrics® 50 µm	yellow	250 pcs.
04-0042-2318	CellTrics® 100 µm	blue	250 pcs.
04-0042-2319	CellTrics® 150 µm	white	250 pcs.
	sterile	**(single packed)**	
04-004-2324	CellTrics® 10 µm, sterile	black	50 pcs.
04-004-2325	CellTrics® 20 µm, sterile	red	50 pcs.
04-004-2326	CellTrics® 30 µm, sterile	green	50 pcs.
04-004-2327	CellTrics® 50 µm, sterile	yellow	50 pcs.
04-004-2328	CellTrics® 100 µm, sterile	blue	50 pcs.
04-004-2329	CellTrics® 150 µm, sterile	white	50 pcs.

Design and specifications may be subject to change due to further product development.
Changes are confirmed by their appearance on a newer document and verification according to its date of issue.

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