

EV ISOLATION

ExoFilter™

The optimal solution for small to large-scale isolation of Extracellular Vesicles (EVs).



Small to
Large Volume
(200 μ l ~ 1,000 ml)



RAPID
(~5 min)



HIGH
Yield & Purity



Operator
independent

ExoFilter™

Charge-based filtration technology for massive EV isolation

About ExoFilter™

Charge based filter for efficient extracellular vesicle isolation, suited to 200 μ l to 250 mL sample loading volumes of biofluid and cell culture media.

- The maximum single-use capacity extends to 1,000 mL
 - The minimum suitable volume starts at just 200 μ l
- *If your sample is too small, you may dilute your sample to 200 μ l.*



and more!

Features

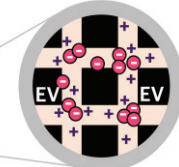
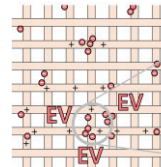
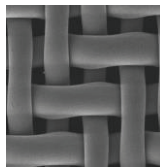
- ✓ **Process LARGE VOLUME**
provides the optimal solution for isolating extracellular vesicles (EVs) from small to large volumes
- ✓ **FAST PROCESSING / RAPID & SIMPLE**
Hands on time 1 minute. Enables rapid purification of EVs
- ✓ **Choose your volume**
Enrichment of EVs from a broad range of sample volumes, from 200 μ l to 1,000 mL: [ExoFilter-mini](#), [midi](#), [maxi](#), [bottle top](#)
- ✓ **Versatility**
 - Plasma/Serum
 - Saliva, Urine
 - Culture Media
 - MSC
 - Lactobacillus
 - Fungi
 - Bacteria
 - Euglena
 - Plant extracts
- ✓ **Sterile**
Select Sterile or Non-Sterile ExoFilter Kits depending on your needs.
- ✓ **User independent**

Method

Charge-based filtration for large-volume sample processing

- A strong positively(+) charged filter effectively captures negatively(-) charged EVs.
- The capturing properties are nearly independent of flow speed, ensuring rapid separation of EVs for large-scale sample volume.

**Microscopic images of ExoFilter structure*



(EV-) Negatively charged EVs captured by (Filter+) positivity charged membrane filters

Specification

ExoFilter Series

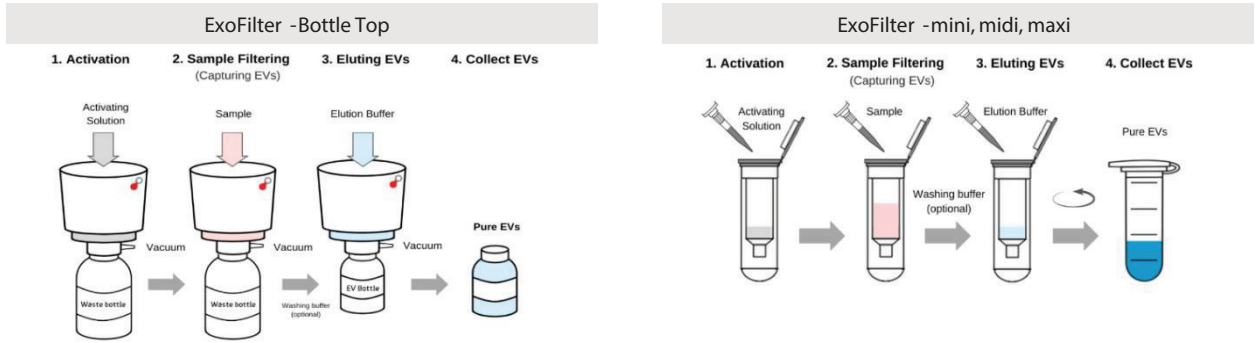
Model	ExoFilter-mini	ExoFilter-midi	ExoFilter-maxi	ExoFilter-Bottle top	ExoFilter-Syringe
CAT#	60001	60015	60050	60250	60010
Package Unit	20 preps/set	20 preps/set	20 preps/set	4 preps/set	10preps/set
Loading volume/Test	200 μ l ~ 1 ml	1 ~ 3 ml	3 ~ 15 ml	100 ~ 250 ml (~ 1,000 ml)	5 ~ 10 ml
Reagents Provided	Activation Buffer, Elution Buffer				
Not Provided	Mini-centrifuge (spin down) / Centrifuge / Vacuum pump may be used to shorten time for step 1 to 3 (see protocol)				

※ Buying in bulk? Microgentas offers special discounts on bulk orders so that cost won't be a barrier for your research. Contact us to get the updated quote.

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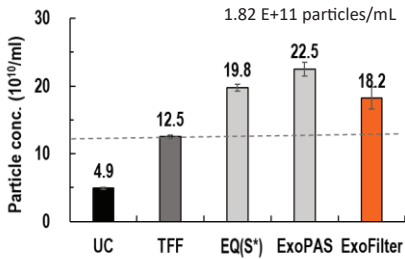
ExoFilter™

Protocol

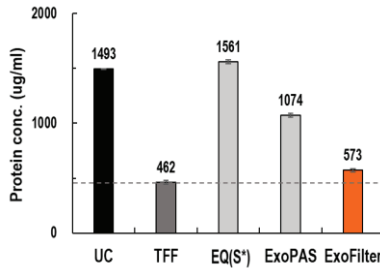


Comparison

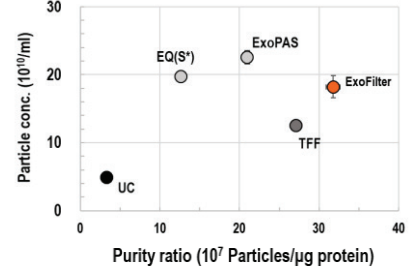
NTA



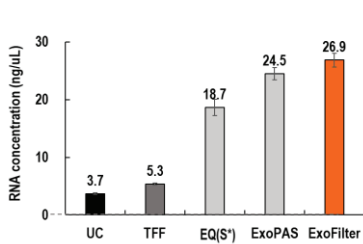
BCA



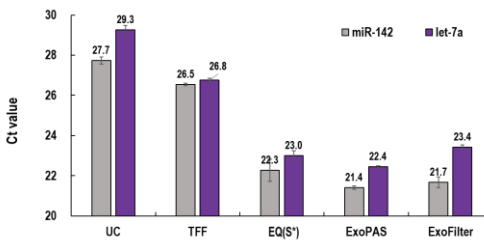
Performance Chart



Nanodrop



RT-qPCR



Western blot Assay

Reference

Lee, K., et al (2024). "Scalable and highly efficient EV isolation by charge-based filtration: ExoFilter"