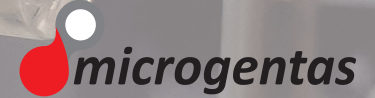
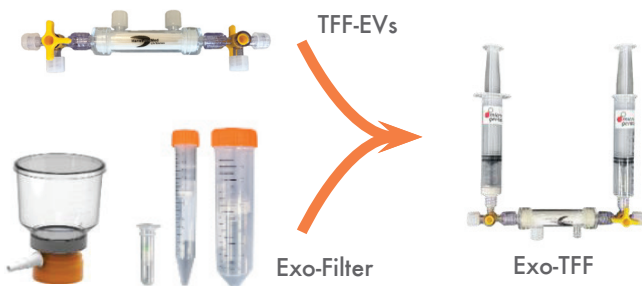


EXO-TFF: charge and size exclusion for EV purification



About Exo-TFF

Exo-TFF was born from a combination of Microgentas and HansaBioMed Life Sciences technologies. Exo-TFF consists in a charge based filter for extracellular vesicle isolation (Exo-Filter, Microgentas), included in a syringe and the Tangential Flow Filtration TFF-EVs device provided by HansaBioMed. The results is a device that efficiently can implement the purity of the nanovesicles from harsh matrices, as plasma, serum, or other biofluids.



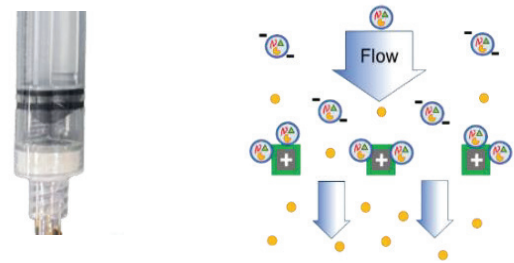
Features

- **CHARGE FILTER:** positively charged filter for capturing negative charged nanoparticles
- **TFF CARTRIDGE:** TFF-EVs, polyethersulfone fiber filter, 50 nm pore size (800 kDa cut-off).
- **TURNAROUND TIME:** hands on time, 5 min for 20 ml of fluid.
- **VOLUME PROCESSABLE:** 5 - 1000 ml.

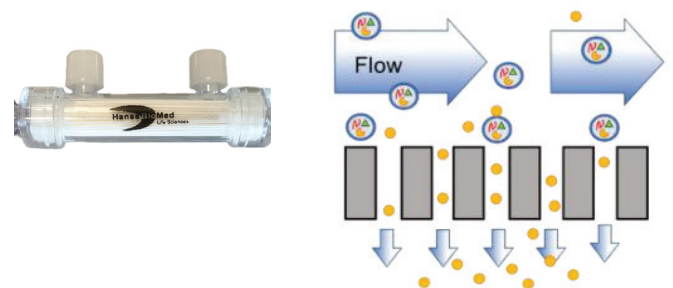
Method

CHARGE BASED FILTRATION: a positively charged filter membrane efficiently capture negatively charged EVs.

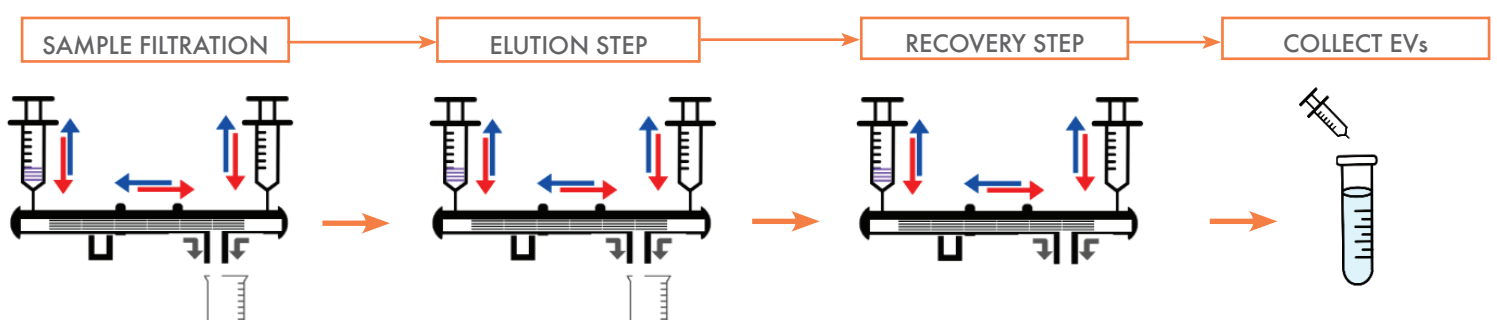
The capturing process is independent of flow speed, ensuring rapid separation of EVs from the fluid matrix.



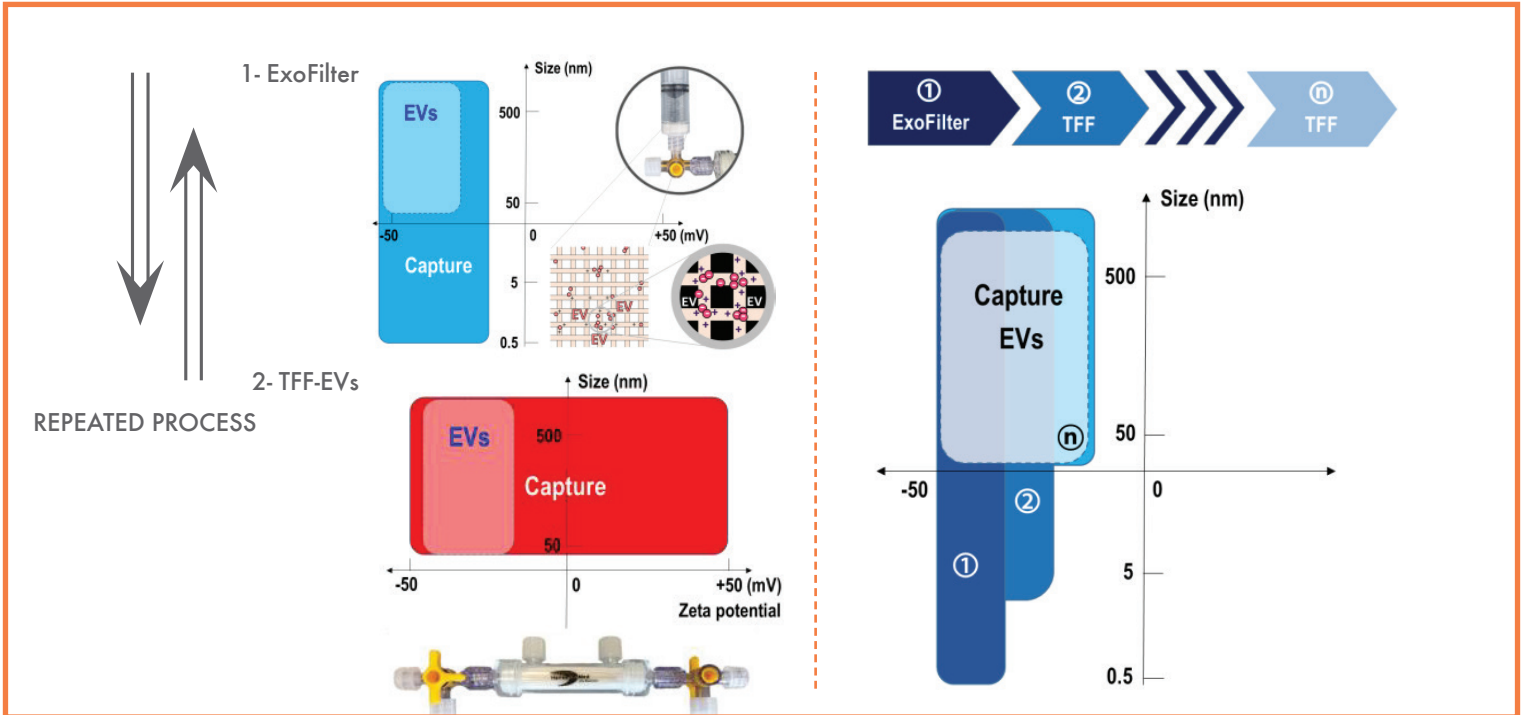
TANGENTIAL FLOW FILTRATION: retains particles larger than 50 nm, removing the residues of small proteins and contaminants and ensuring high sample purity.



Workflow



Purification process of EVs



Performance over other methods

