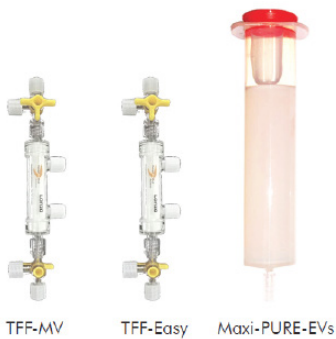


PURE-EVs COMBO kits: EV purification from diluted fluids

PURE-EVs COMBO kits: EV purification from diluted fluids

PURE-EVs PLUS and PURE-EVs COMPLETE are kits which combine the ability of the TFF filters to concentrate diluted fluids to the capacity of the PURE-EVs columns to purify EVs from circulating proteins. The Combo kits are the perfect solution for people who isolate EVs from fluids as cell conditioned media or urine and want to obtain a high recovery and separation of small and large vesicles.

PURE-EVs COMPLETE:



EVs can be effectively separated using a combination of tangential flow filtration (TFF) devices (with filter pores of different sizes) and size exclusion chromatography (SEC).

PURE-EVs COMPLETE kit includes TFF-MV concentrator for separation of microvesicles larger than 150 nm; TFF-Easy concentrator for concentration of smaller of EVs (including exosomes); maxiPURE-EVs column for EVs further purification via SEC.

PURE-EVs PLUS and Maxi-PURE-EVs PLUS:



Concentration and purification of EVs from diluted matrices.

PURE-EVs PLUS kit contains 5 PURE-EVs SEC columns and 1 TFF-Easy concentrator.

MaxiPURE-EVs PLUS kit contains 1 maxiPURE-EVs SEC column and 1 TFF-Easy concentrator.

Characteristics

- Hollow fiber pores: 200 nm (TFF-MV) and 5 nm (TFF-Easy)
- High efficiency of EV isolation
- Reusable multiple times.

Applications

- Concentration of diluted matrices prior to EV isolation.
- Easy removal of small molecules and ions
- Efficient fractionation of different EVs sizes

Advantages

- Suitable for mechanical and manual use
- Scalable and reproducible EV purification process
- Easy and fast protocol



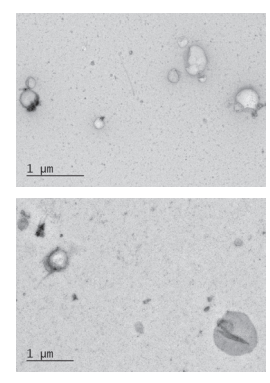
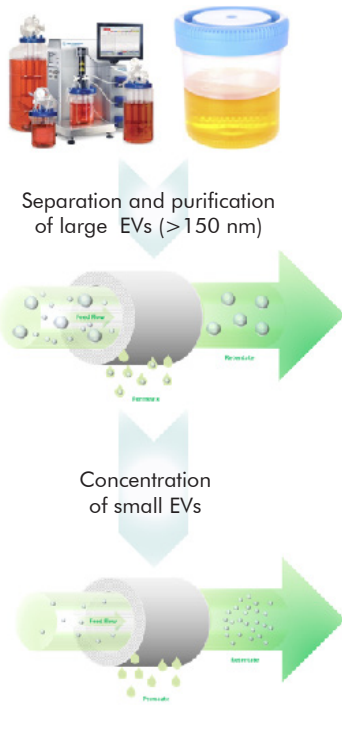
A step towards standardization

Double tangential flow filtration and Size exclusion chromatography

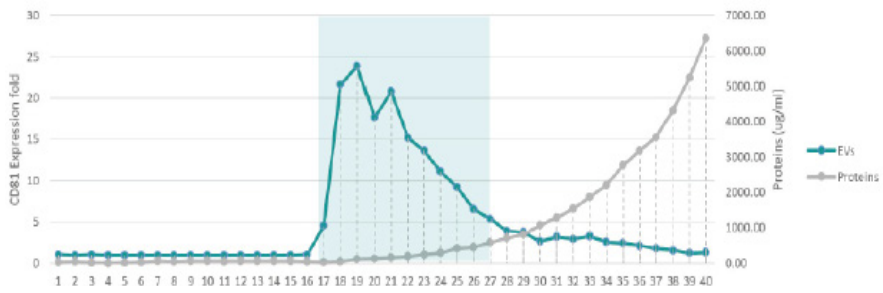
PURE-EVs COMPLETE: Scalable purification of small and large Extracellular Vesicles

200 ml of cell conditioned medium from HCT116 cells have been filtered through the TFF-MV, in order to separate the large vesicles. The permeate containing the small EVs has been collected in a clean bottle (roughly 200 ml). The retentate containing EVs larger than 150 nm has been recovered, after washing, with a syringe, injecting 5 ml of PBS 1X. Large EVs have been visualized by TEM analysis.

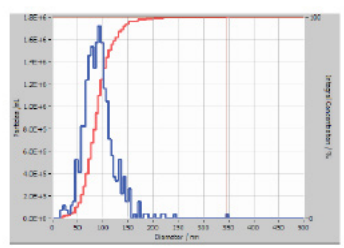
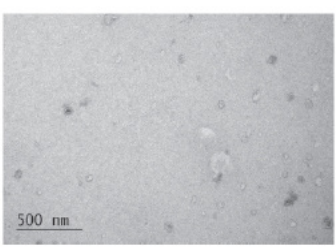
The collected permeate, containing small EVs, has been concentrated 10 folds by TFF-Easy (final volume 20 ml), then purified through Maxi-PURE-EVs column. Collected fractions were analyzed by ELISA assay, detecting CD81, by TEM and NTA using the Zetaview (Particle Metrix).



Analysis of large EVs



Analysis of SEC fractions for detecting EV and protein content.



EM image and particle size distribution chart of small EVs purified by SEC (MaxiPURE-EVs).



HansaBioMed Life Sciences LTD
 Akadeemia Tee 15A, 12618 Tallinn (EE)
 Phone: +372 6561996
 email: info@hansabiomed.eu
 www.hansabiomed.eu

