

VanoFlow® Cassette Information Card

Doc Num: IC-VF-EXO-01 Rev A



1 Product Description

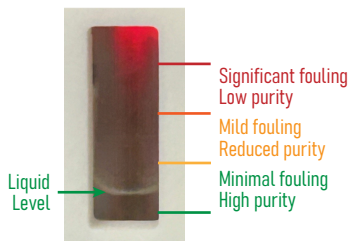
Name:	VanoFlow-EXO-01 EV Isolation Cassette
Part Number:	VF-EXO-01
Function:	To be used with NanoEX™ Bio-nanoparticle Isolation System for isolation of Extracellular Vesicles (EV)
Size Cutoff:	>30 nm
Irradiation:	Package has been treated with gamma radiation
Shelf Life:	Two (2) years from the date of manufacturing
Storage:	Store in ambient conditions protected from moisture and extreme temperature
Single Use:	The cassette is single use only

2 Sample Requirement

Input Volume:	5-60 ml
Output Volume:	~4.5 ml
Wash Volume:	45-60 ml
Pre-processing:	Centrifuge to remove debris and filter through 0.22 or 0.45 µm PES filter to remove large particles and aggregates
Dilution:	Complex samples or samples with high protein concentration, such as plasma, must be diluted. Refer to Sample Preparation Guide for details

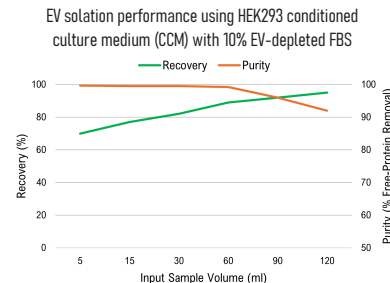
3 Pressure Monitoring

- The liquid level in the “dripping chamber” is a direct indicator of filtration pressure.
- Higher pressure indicates increased membrane fouling and may impact the purity of the isolated EV.



4 Important Consideration

- Do not freeze samples at any time.** Freezing may cause significant EV damage, fusion, surface property change, and protein aggregation leading to reduced recovery, purity, and biological functions.
- Always start with “Standard Mode”.** Standard Mode offers higher purity than “Accelerated Mode”, which is designed only for samples with very low protein concentration.
- Do not exceed the designed input volume.** Using more than designed input volume may lead to reduced purity.



5 Using NFC Tags

- A valid near-field communication (NFC) tag must be attached to the cassette before use.
- Peel off the protective film and attach the NFC tag to the designated area on the back of the cassette, as indicated in the schematic on the right.
- Each NFC tag is valid for one (1) processing cycle.
- If cassette is not recognized (displayed “Unknown”), please download and install the latest [Protocol Profile](#) from: www.aopiabio.com/software

NFC Tag Attached Below

