

# evGAG: Fast Extracellular Vesicle purification for biomarker discovery

## evGAG Extracellular vesicles Purification Kit

evGAG is a patented purification method that allows isolation of extracellular vesicles (EVs) from biofluids. The evGAG precipitation reaction is based on the interaction between the precipitation solution and glycosaminoglycans (GAGs) in the EVs.



## Applications

- Ideal for Isolation of extracellular vesicles (EVs) from urine samples
- Nanoparticle Tracking Analysis (NTA)
- Flow Cytometry Analysis (FACS)
- Western Blot (WB)

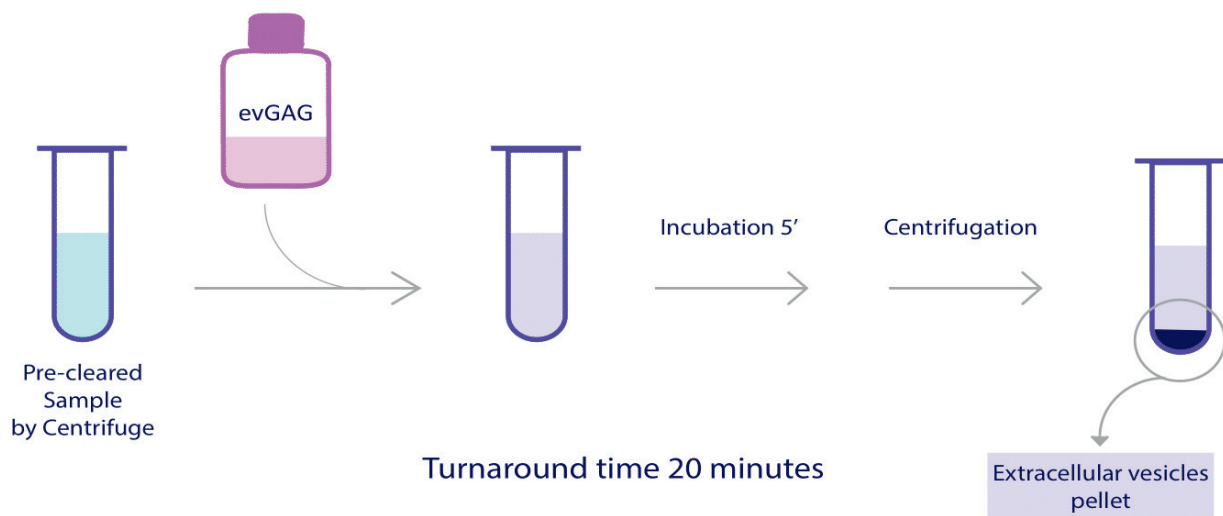
## Characteristics

Category: Pre-analytical  
Isolation method: Affinity  
Sample Type: Urine  
Sample Volume: 0.5 - 2mL  
Reagent Volume: 2x10mL

## Advantages

- High sensitivity and specificity
- Rapid and simple process (20 minutes)
- Inexpensive
- Small sample needed
- No specific equipment needed

## How it works

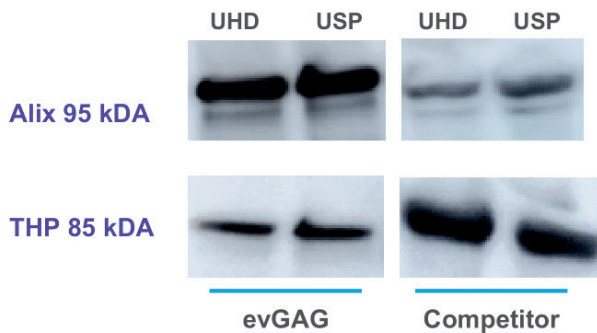


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## Next generation of extracellular vesicle isolation

### evGAG - Performance of evGAG technology in urine

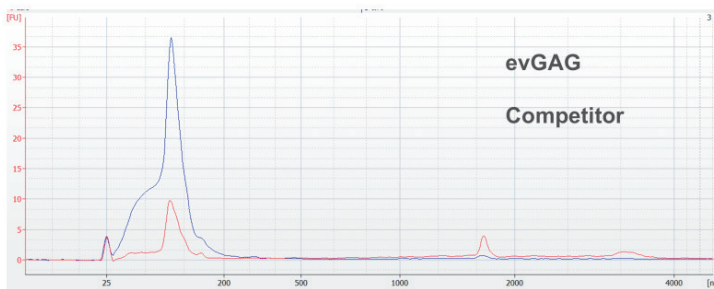
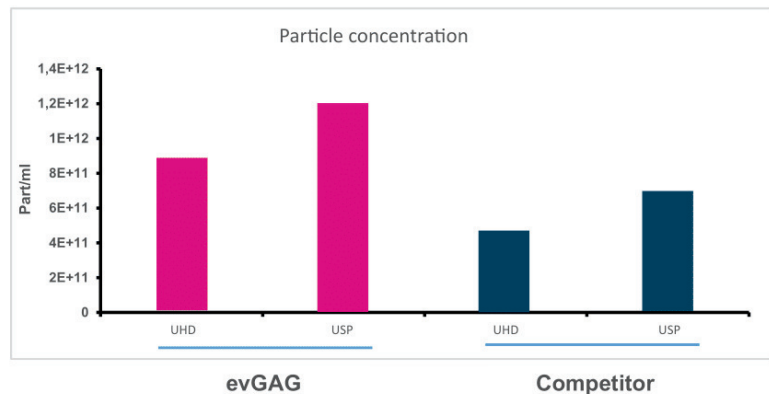
Urine samples were processed with evGAG. Briefly, 1 mL of urine from healthy donor (UHD) and 1 mL of urine from healthy donor spiked-in (USP) with extracellular vesicles purified from colon cancer cell line containing KRASG13D mutation (cat nr. EXO-REF-KRAS-G13D-2) were incubated with 2 mL of evGAG each, for 5 minutes and then centrifuged at 3,000g for 15 minutes. This results in a precipitated pellet containing EVs.



Western Blot Analysis of extracellular vesicle markers Alix, confirmed that the concentration of EVs isolated by evGAG was higher compared to the competitor. On the contrary, uromoduline (THP) as not specific target is less abundant in EVs isolated by evGAG than competitor.

Lorem ipsum

The pellet containing EVs was resuspended in PBS and analyzed by Nanoparticle Tracking Analysis (NTA). Nanoparticles concentration is 2 times higher in EVs isolated with evGAG in both UHD and USP samples ( $8.8 \times 10^{11}$  and  $1.2 \times 10^{12}$  respectively) than to EVs isolated with competitor in both UHD and USP samples ( $4.6 \times 10^{11}$  and  $6.9 \times 10^{11}$  respectively).



EV RNA was isolated from urine using the extraction phase of SoRTEV™ and analyzed with Bioanalyzer. The results showed that extracellular vesicles purified with evGAG contain the highest yield of small RNA content (<200 nt) with a main peak at 100 nt indicating a most efficient extraction of small exoRNA from urine as opposed to EVs

isolated with competitor kit which showed some longer RNA species including 18S and 28S rRNA but a lower peak corresponding to small exoRNA.

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| NB-12-6001-3    | NeoLine pipette 2-20 µl  | 1unit     |
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| NB-12-8001-19   | Combs for NeoPRO4 mini (1.5mm, 15 wells)                             | 5pieces   |
| NB-12-8001-20   | Spacer glasses flat for NeoPRO4 mini (0.75mm, 100*83mm)              | 5pieces   |
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