

EXOGAG

NEXT GENERATION OF
EXOSOME ISOLATION

FOR BIOMARKER DISCOVERY
IN LIQUID BIOPSY



NEXOTECH

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USER GUIDE

EXOGAG

Exosome purification kit
for serum, plasma, urine



STORAGE

All components can be stored at room temperature.

PRODUCT COMPONENT

EXOAG™ plasma, serum, urine isolation kit (20 samples).

2x10 ml ExoGAG precipitation reagent.

1x User guide.

(Not supplied: 1.5 ml microcentrifuge collection tubes)



***ExoGAG** is a specific, quick and inexpensive method to optimize the process of exosome and other extracellular vesicles isolation.*





PRODUCT INFORMATION

The **ExoGAG** precipitation reaction is based on the interaction between the precipitation solution and glycosaminoglycans (GAGs) which are in exosomes.

After a simple incubation, the exosomes can be isolated by a short centrifugation.

WHAT IS ExoGAG?

ExoGAG technology allows the isolation of exosomes from biological fluid samples (plasma, serum, urine), based on the affinity of exosomes to the precipitation reagent, which allows their isolation from a complex sample.

ExoGAG is a patented exosome purification method that allows the isolation of exosomes from a liquid biopsy sample with a minimal amount of co-precipitated material, such as protein or genetic material (DNA, RNA or microRNA) which makes it an ideal product for biomarkers research and their transfer to the clinic.



High sensitivity and specificity

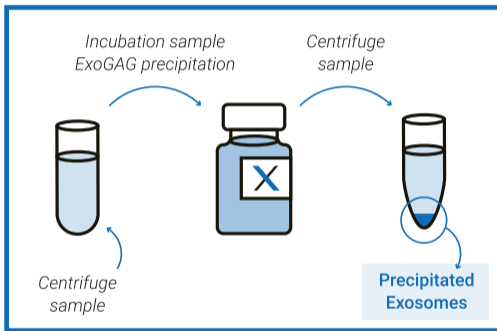
Fast

Inexpensive

Small sample needed

No specific equipment needed


SAMPLE	SAMPLE VOLUME	EXOGAG PRECIPITATION REAGENT VOLUME
PLASMA	500 μ l	1000 μ l
SERUM	500 μ l	1000 μ l
URINE	3000 μ l	1500 μ l
OTHER	REQUEST	REQUEST



PROTOCOL

ExoGAG serum/plasma/urine exosomes isolation protocol.

- 1. Collect plasma/serum/urine sample.** Samples can be frozen until the moment we want to use them; if the samples have been frozen, thaw and temper them before processing.
- 2. Centrifuge the sample** at 2000 x g for 5' to remove cells and cell debris.
- 3. Transfer the supernatant** to a new tube and discard the pellet of possible cell debris.
- 4. Add the volume of sample** to isolate exosomes to



a new tube and add twice the volume of ExoGAG precipitation reagent, except for urine samples, as shown in the table.

5. **Mix the sample** and ExoGAG precipitation reagent by inverting the tube or vortexing to homogenize the final solution (the solution will have a characteristic blue colour).
6. **Incubate the sample** for 5' at 4°C.
7. **Centrifuge the sample** at 3000 x g; 15' at 4°C.
8. **Remove the supernatant** being careful not to remove the pellet containing the exosomes (this pellet will be dark blue).
9. **Resuspend the exosomes** in the appropriate buffer (repeatedly pipetting up and down), depending on the technique.



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