

# EXO GAG

## URINE

Next generation of Exosome isolation  
for biomarker discovery in liquid biopsy

### EXOSOME PURIFICATION KIT FOR URINE

#### USER GUIDE

#### STORAGE

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All components can be stored at room temperature.

#### PRODUCT COMPONENT

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EXO GAG - Urine™ isolation kit 50ml (10-8 samples). 1 x User guide.  
Not supplied: 1.5ml microcentrifuge collection tubes.

**EXO GAG - URINE is a specific, quick and inexpensive method to optimize the process of exosome isolation.**

#### PRODUCT INFORMATION

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The EXO GAG - Urine precipitation reaction is based on the interaction between the precipitation solution and glycosaminoglycans exosomes surface. After a simple incubation, the exosomes can be isolated by a short centrifugation.

#### WHAT IS EXO GAG - URINE

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EXO GAG - Urine technology allows the isolation of exosomes from urine based on the affinity of exosomes to the precipitation reagent, which allows their isolation from a complex sample. EXO GAG - Urine is a patented exosome purification method that allows the isolation of exosomes from a plasma 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 sensibility and specificity**

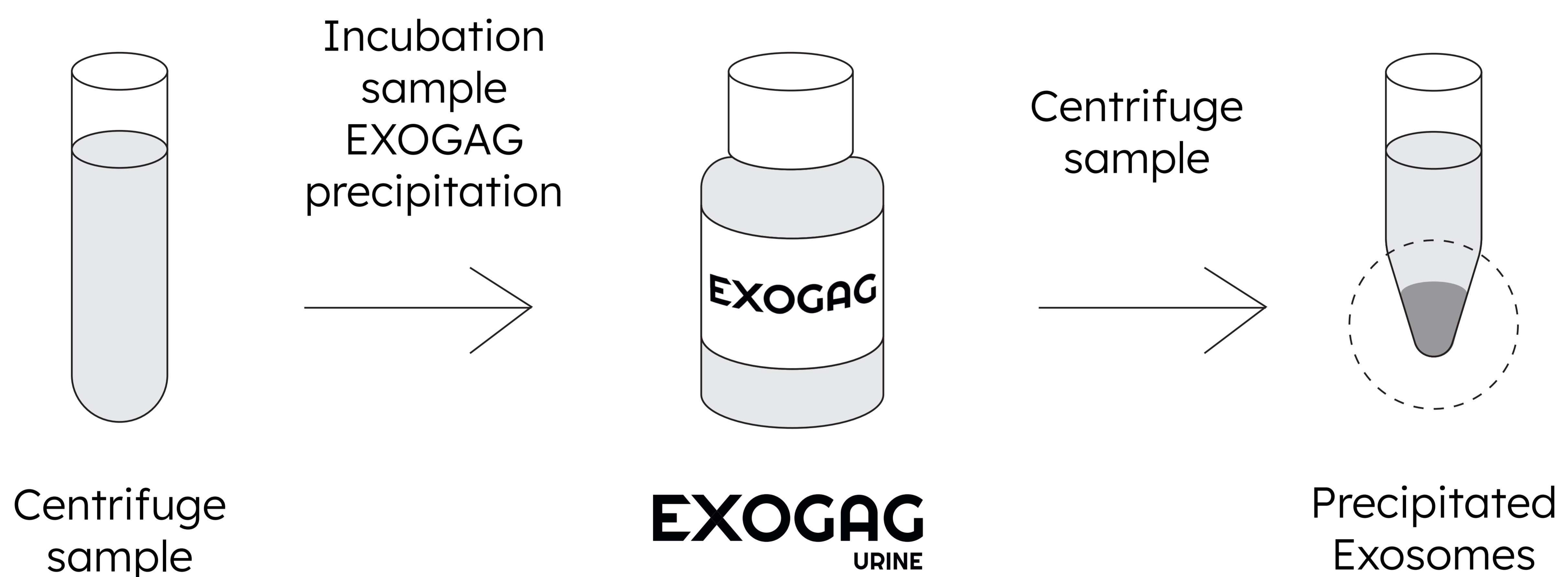
**Fast**

**Inexpensive**

**Small sample needed**

**No specific equipment needed**

SAMPLE	SAMPLE, vol.	EXOAG - URINE, vol.
Serum	10ml	5ml
Serum	12ml	6ml



## PROTOCOL

### EXOAG - Urine Exosomes Isolation Protocol.

- 1. Collect urine sample.** Samples can be frozen until the moment they are used; 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 - Serum precipitation reagent, as shown in the table.
- 5. Mix the sample** and EXOGAG - Urine 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.