GALENVS

magnetic

Universal Pathogen DNA/RNA Extraction Kit

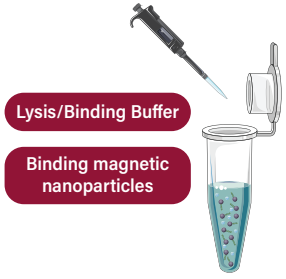
Quick Start Guide

! Before first use add ethanol to wash buffers as per label instructions. Before extraction mix bottles well by inverting upside down several times.

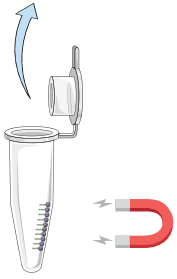
1 **In 1.5ml microfuge tube, add 100µl–200µl of sample** (swabs, serum/plasma, whole blood, cerebrospinal fluid (CSF), stool, sputum, exudate, urine, or saliva).

2 **Add 600µl of Lysis/Binding Buffer**, then add **30µl of binding magnetic nanoparticles**. Mix well by pipetting up-down 10–15x.

Incubate 5 mins to allow for lysis and DNA/RNA binding.

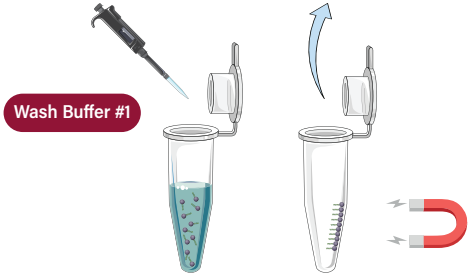


3 **Place tube on magnetic rack for 1–2 mins** to capture DNA/RNA-bead complex, then discard supernatant.

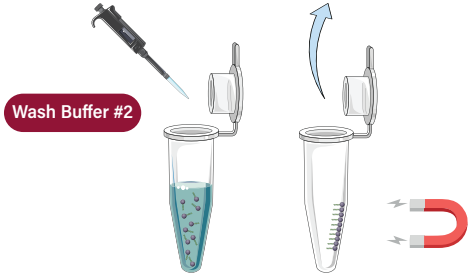


4 Remove tube from magnetic rack and **resuspend DNA/RNA–bead complex in 600µl of Wash Buffer #1**.

Return to magnetic rack for 1–2 mins, then discard supernatant.



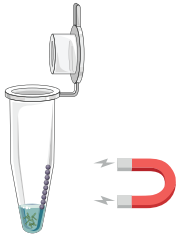
5 **Repeat wash with 600µl of Wash Buffer #2**, return to magnetic rack for 1–2 mins, then discard supernatant and leave to dry for 1 min.



6 Remove tube from magnetic rack and **resuspend DNA/RNA–bead complex in 50–100µl of Elution Buffer.**

Mix well by pipetting up-down 15–20x to elute DNA/RNA from beads and let stand for 1–2 mins.

7 Place tube on magnetic rack to separate beads (~1–2 mins).



8 Transfer clean DNA/RNA solution (supernatant) to clean tube.