A R A MagNA

Viral RNA Isolation Kit
96 preps

A good RNA isolation protocol is of high importance, since RNA is more unstable than DNA and many clinical samples contain RNAses. The detection of viruses in different types of samples is a challenging procedure in relation to low virus concentration and to the presence of significant RT-PCR inhibitors. However, you can overcome these challenges with ARA MagNA Viral RNA Isolation Kit. This kit is designed for the rapid isolation of high quality, high yield viral RNA from cell free body fluids such as plasma, serum, urine and rinse liquid from swabs. Preparation time for a single sample is less than 30 minutes (Figure 1). The kit contains sufficient materials for 96 preparations. The purified, high-quality viral RNA is ready-to-use for a wide variety of demanding downstream applications.

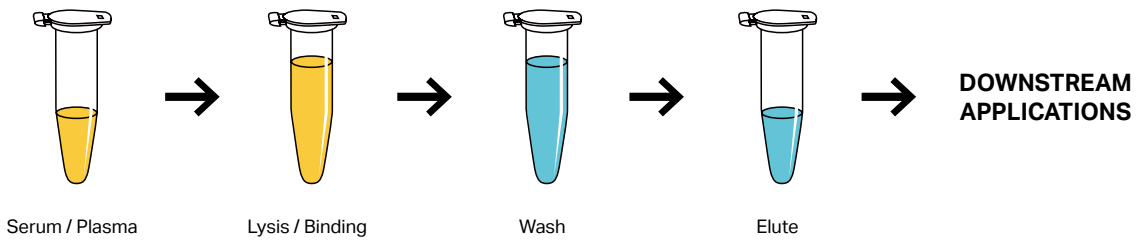

Figure 1. The easy and fast ARA MagNA workflow

The ARA MagNA system uses a easy and fast isolation workflow. Lyse the sample with buffer VLB1 and VR-beads, wash the beads with VW2, and elute viral RNA with buffer VE3.

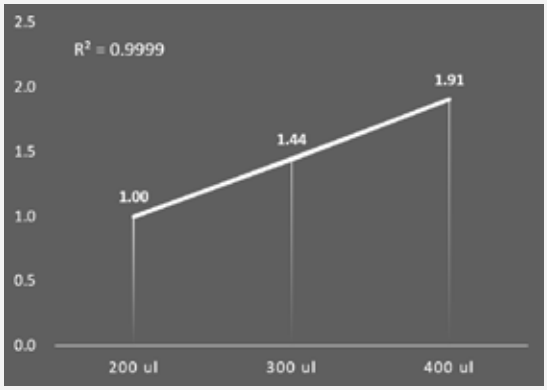

Figure 2. Viral RNA isolation with ARA MagNA system is scalable.

We added the viral supernatant to the rinse liquid from swabs and then isolated the viral RNA from increasing volumes of the same sample. The scalable isolation procedure allows variable volume samples. The results show highly linear across the input sample volumes. The isolated viral RNA was used in the qRT-PCR. All levels are shown relative to 200 µl of input (set to a value of 1).

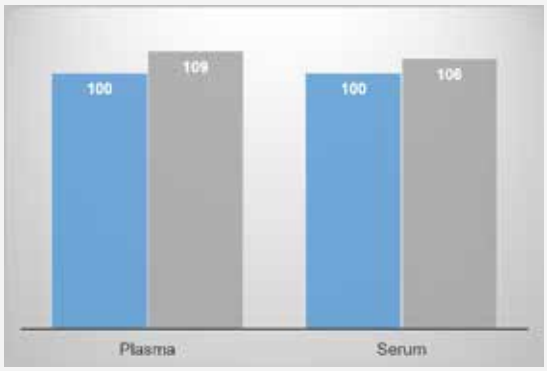

Figure 3. Viral RNA Isolation with ARA MagNA system is reproducible.

We added the viral supernatant to plasma or serum and then isolated the viral RNA from the same sample in duplicate using ARA MagNA. The similar yields demonstrate the reproducibility of ARA MagNA. The isolated viral RNA was used in the qRT-PCR. Levels are shown relative to the blue bar (set to a value of 100).

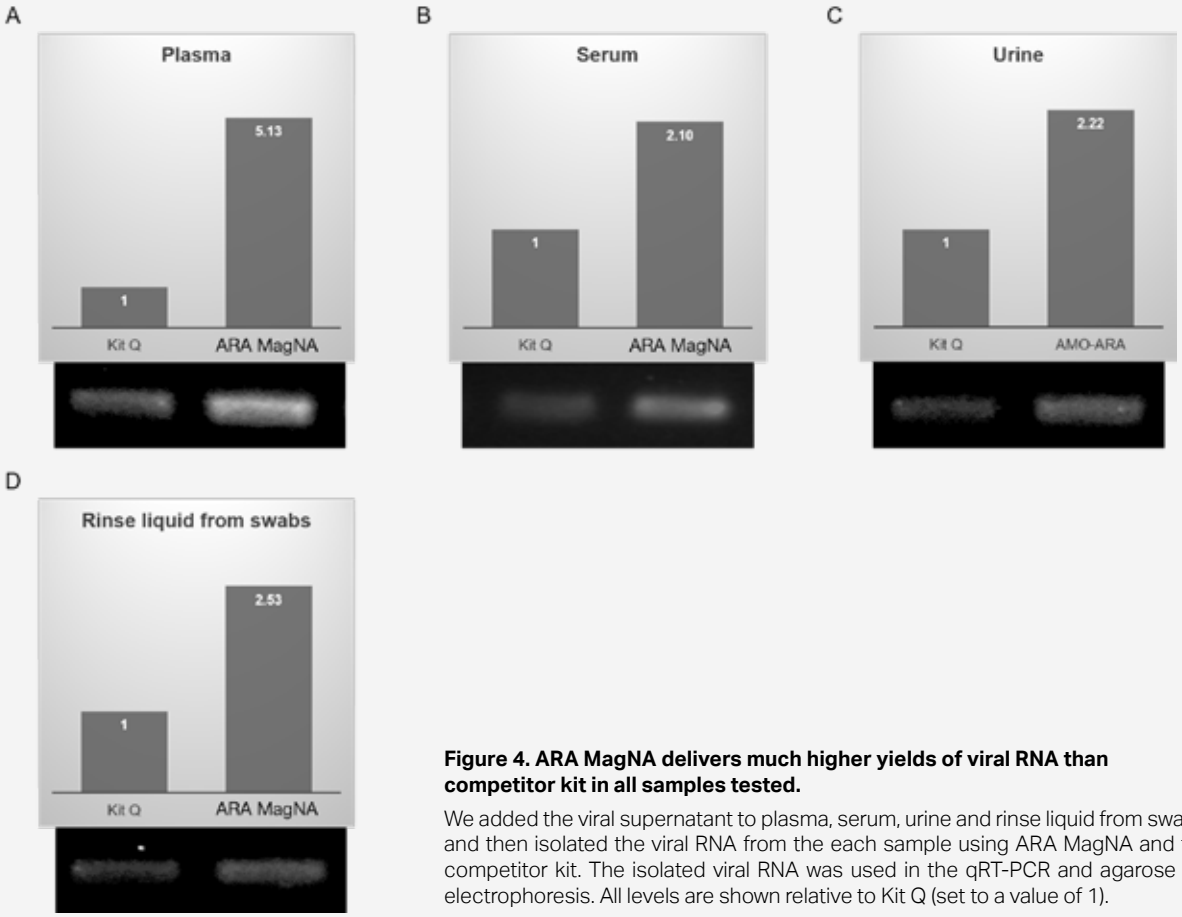

Figure 4. ARA MagNA delivers much higher yields of viral RNA than competitor kit in all samples tested.

We added the viral supernatant to plasma, serum, urine and rinse liquid from swabs, and then isolated the viral RNA from the each sample using ARA MagNA and the competitor kit. The isolated viral RNA was used in the qRT-PCR and agarose gel electrophoresis. All levels are shown relative to Kit Q (set to a value of 1).

Ordering information

Product Description	Catalog Number	Unit
ARA MagNA Viral RNA Isolation Kit	BKD4VIR96	96 preps