Quick-DNA/RNA™ Pathogen MagBead (Cat. Nos. R2145, R2146)

MagMAX Express 24 - AM1836 protocol



All reagents and steps should be performed at room temperature, unless specified otherwise.

Buffer Preparation

- Add 500 μl or 1 ml beta-mercaptoethanol (user supplied) per 100 ml or 200 ml Pathogen DNA/RNA Buffer, respectively (final concentration 0.5% (v/v)).
- Add 20 mL (R2145) or 80 ml (R2146) of isopropanol to the MagBead DNA/RNA Wash 1 concentrate.
- Add 30 mL (R2145) or 120 ml (R2146) of isopropanol to the MagBead DNA/RNA Wash 2 concentrate.
- Add 1,040 µl **Proteinase K Storage Buffer** per vial to reconstitute the lyophilized **Proteinase K**, 20 mg. Vortex to dissolve and store frozen aliquots.

Protocol

- 1. To Row A, add 1 μl **Proteinase K** to each 50 μl cleared **DNA/RNA Shield**[™] sample and mix well.
- 2. Add 100 μl **Pathogen DNA/RNA Buffer** and mix well¹.
- 3. Add 10 µl **MagBinding Beads** and mix well¹ for ≥5 minutes. Important: MagBinding Beads settle quickly, ensure that beads are kept in suspension while dispensing.
- 4. To Row B, add 150 µl MagBead DNA/RNA Wash 1 and mix well¹ for 1 minute.
- 5. To Row C, add 150 µl MagBead DNA/RNA Wash 2 and mix well¹ for 1 minute.
- 6. To Row D and E, add 150 µl ethanol (95-100%) and mix well¹ for 1 minute.
- 7. Repeat Step 6.
- 8. Dry the beads at room temperature for 2 minutes or until fully dry².
- 9. To Row F, add 40 μl **DNase/RNase-Free Water** and mix well¹ for 1 minute to elute DNA/RNA from the beads.

Alternatively, for highly concentrated DNA/RNA, use ≥20 µl volume.

The eluted DNA/RNA³ can be used immediately or stored frozen.

Notes:

¹ For all buffer additions and to ensure beads are properly in suspension, **mix well** by pipetting up and down several times and/or by shaking (vortexing) at ~1,300 rpm.

- ² Beads will change in appearance from glossy black when still wet to a dull brown when fully dry. Alternatively, a heat block can be used (25-55°C).
- ³ It is recommended to titrate the DNA/RNA eluate for downstream applications (i.e., RT/PCR, etc.).