

vmrd

Nucleic Acid Extraction

VMRD offers a magnetic bead-based DNA/RNA extraction kit designed for manual and automated purification of pathogen nucleic acids in **all veterinary specimens**.

Excellent performance in evaluated samples

- ✓ MAP in feces
- ✓ BVD in semen, ear notches, serum and blood
- ✓ PRRSV in serum, and oral fluids
- ✓ SVA in vesicular swabs
- ✓ PEDV in oral fluids, feces and fecal swabs
- ✓ Leptospira in kidney and urine
- ✓ EHDV in spleen

Magnetic Bead Extraction

CATALOG #: MOL-EXTRACT-MAG

- | | |
|-----------|-------------------|
| ● Blood | ● Oral fluids |
| ● Serum | ● Milk |
| ● Plasma | ● Urine |
| ● Semen | ● Nasal swabs |
| ● Tissues | ● Fecal swabs |
| ● Feces | ● Vesicular swabs |



The only extraction kit you will ever need

- ✓ Outstanding performance in all sample types
- ✓ Impervious to inhibitors and extenders
- ✓ 21 min automated protocol
- ✓ Elution volume 50-100 μ L
- ✓ Extracts both DNA and RNA
- ✓ Suitable for automation and manual processing

Flexibility and Reliability

This nucleic acid extraction kit is tough enough to eliminate inhibitors and extenders, yet gentle to nucleic acids. Use one kit to purify RNA/DNA from viruses or DNA from bacteria. With **two lysis solutions** this nucleic acid extraction kit offers **flexibility and reliability** for all your extraction needs.

Procedure overview

1. Lyse Sample

Sample lysis occurs in the presence of chaotropic ions and Proteinase K.

2. Bind Nucleic Acids

Add Binding Working Mix to Lysate.
Mix/Shake then **Incubate** to allow adsorption of nucleic acids to paramagnetic beads.

3. Separate Beads

Apply magnetic field to collect/isolate magnetic beads for each subsequent step.

4. Wash & Dry

Perform clean-up of nucleic acids bound to paramagnetic beads with Wash buffer 1, Wash buffer 2 and 80% Ethanol.

5. Elute Nucleic Acids

Add 50-100 µL low-salt elution buffer.
Incubate.
Separate beads a final time.
Collect elution liquid.



Validation data

Nucleic acids were extracted from fecal, serum and vesicular swab samples as well as artificially spiked semen samples with egg-based extenders using VMRD and other top-of-the line commercial kits from two manufacturers. The output was analyzed using standardized PCR assays.

