



Virus DNA extraction and purification magnetic beads kit

Data Sheet

100T

Catalog Number: Kit Components

included:

EP10015 Size:

Si-Mag magnetic beads – 10 ml
Proteinase K – 2 ml

Viral Lysis solution – 20 ml
Wash solution – 60 ml

• Elution Buffer – 10 ml

Materials needed but not provided with the

• 80% Ethanol

ded with the • Isopropanol

si-Mag Magnet (sold separately)

Applications: This kit provides a simple, rapid and efficient method for the recovery and purification of

DNA directly from Agarose gel (100 bp to 50 kb) with typical recovery efficiency up to

85%.

Storage: Magnetic beads should be stored at 2-8°C, the Proteinase K should be stored at -20°C and

other kit reagents need to be stored at room temperature. Avoid repeated freeze-thaw

cycles.

Introduction

This kit allows for extraction and purification of viral DNA from serum, plasma, urine, lymph, cell culture supernatants or from a variety of viral-containing fluids. Using proprietary Viral Lysis solution, viral DNA can be efficiently extracted and then purified using magnetic beads, yielding high pure viral DNA with a ratio of OD260/280 between 1.75 and 1.85. The recovered DNA size can be up to 60kb.

The kit will work with a 48 well round bottom plates if a special magnetic frame is used.

The kit can also be used with a variety of automatic nucleic acid extraction instruments or workstations.

Precautions

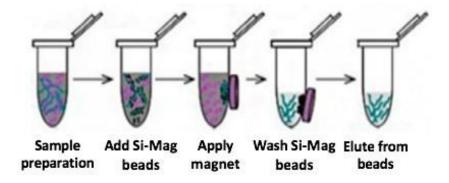
- 1. Avoid freeze/thaw cycles and centrifugation which could damage the beads.
- 2. Proteinase K solution should be stored at -20°C.
- 3. Bring frozen viral samples to room temperature before extraction.
- 4. Vortex samples for about 10 seconds before adding magnetic beads.
- 5. Vortex beads and mix well with DNA to ensure best performance.
- 6. Elute DNA from the beads completely.

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Principle of Assay:



Procedure for purification of viral DNA from viral samples

- 1. **Preparation of sample.** Add **200 ul** of viral fluid sample, **200 ul** of viral lysis solution, and **20 ul** of Proteinase K solution into a clean Eppendorf tube. Vortex for 30 seconds then incubate for 10 min at 58°C.
- 2. Add 100 ul of magnetic beads to the tube.
- 3. Add 300 ul of isopropanol to the tube.
- 4. **Mix** the tube well and incubate 5 min at room temperature. Put the Eppendorf tube onto the Si-Mag magnet rack for 20 seconds. Make sure the beads are collected at the bottom of the tube.
- 5. **Remove** supernatant by holding the magnet rack upside down or by pipetting.
- 6. Wash the beads with 600uL of wash solution. Vortex the tube to mix well.
- 7. **Wash** the beads with **500 ul** of 80% ethanol for **twice** and repeat Step 5.
- 8. **Dry** the beads at 55°C for 3-4 min leaving the tube open. **Do not over-dry the beads.**
- 9. **Elute** the DNA from beads with **50-200 ul** of elution buffer, incubate at 60°C for 2 min and then vortex at full speed for 1 min. At 5 min, repeat the vortexing once.
- 10. **Remove beads** by using magnet rack, pipette DNA out and transfer to a clean tube.
- 11. **Store** purified DNA at -20°C for long-term storage.

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