LabPrep™

Viral DNA / RNA VacEZor Kit

Handbook

For Research Use Only

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Distributed By:

BioVendor
Research
and Diagnostic Products

LabPrep

Kit Contents

LabPrep Viral DNA/RNA VacEzor Kit	(20)	(100)
Catalog No.	**LPVX20V**	**LPVX100V**
Number of preparations	**20**	**100**
Viral NA Spin Column	20 pcs	100 pcs
Elution Tubes (1.5 ml)	20 pcs	100 pcs
Collection Tubes (2 ml)	20 pcs	100 pcs
SC adapter	20 pcs	100 pcs
Buffer DRVL	7 ml	33 ml
Buffer TLW1 (concentrate)	18 ml	42*2 ml
Buffer CCEB	10 ml	25 ml
BE solution	0.07 ml	0.33 ml
Proteinase K	0.7 ml	3.2 ml
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Storage

All components can be stored at room temperature (15–25℃) for up to 1 year.

Proteinase K and BE solution can be stored at RT for 4 month. For long term storage (>4 month), store at 4 ℃.

Important notes before starting

- Check that Buffer DRVL and Buffer TLW1 have been prepared according to the instructions indicated on the battle. Buffer DRVL containing BE solution can be stored at room temperature for up to 3 months.
- Large debris in the samples which would clog the Viral NA Spin Column should be removed by centrifugation before applying to the Viral NA Spin Column.
- Do not pre-mix Proteinase K and Buffer DRVL before using.

Equipment and Reagents to Be Supplied by User

- Microcentrifuge
- Ethanol (96–100%)
- Sterile, RNase-free pipet tips
- VacEzor system (For vacuum protocol, cat. No. M3610, Taigen)

Purification of Viral Nucleic Acids (Vacuum Protocol)

Vacuum manifold preparation:

Put SC adaptors as sample number into slots of vacuum manifold. Put spin columns into each SC adaptor. Put the pink sealing columns into each unused slot of vacuum manifold to seal them.

Procedure

1. Mix 300 µl of sample and 30 µl of Proteinase K in a 2 ml microcentrifuge tube (not provided).
2. Add 300 µl of Buffer DRVL containing BE solution to the sample. Mix by pulse-vortexing for 15 s.
3. Incubate at 56°C for 10 min.
4. Briefly centrifuge the tube to remove the drops from the inside of the lid.
5. Add 300 µl of ethanol (96–100%) to the lysate, and mix by pulse-vortexing for 15 s. After mixing, briefly centrifuge the tube to remove the drops from the inside of the lid.
6. Transfer 700 µl of the lysate-ethanol to the Viral NA Spin Column. Place the cover on the vacuum manifold. Switch on the vacuum pump until all lysate have been drawn through the spin column.
7. Transfer the remaining lysate-ethanol to the Viral NA Column. Place the cover on the vacuum manifold. Switch on the vacuum pump until all lysate have been drawn through the spin column.
8. Add 850 µl Buffer TLW1 to the Viral NA Spin Column. Place the cover on the vacuum manifold. Switch on the vacuum pump until all buffers have been drawn through the spin column.
9. Repeat step 8 once for additional washing.
10. Add 850 µl of ethanol (96–100%) into the Viral NA Spin Column. Place the cover on the vacuum manifold. Switch on the vacuum pump until all buffers have been drawn through the spin column.
11. Place the Viral NA Spin Column in a clean 2 ml collection tube (provided). Centrifuge at 20,000 x g (14,000 rpm) for 3 min.
12. Place the Viral NA Spin Column in a 1.5 ml Elution Tubes (provided). Add 60 µl of Buffer CCEB, close the lid, and incubate at room temperature for 1 min. Centrifuge at full speed for 1 min to elute the nucleic acids.

Technical Support

For more information or technical assistance, please contact BioVendor.

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