LabPrep™

Viral DNA / RNA Mini Kit

Handbook

For Research Use Only

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LabPrep

Kit Contents

LabPrep Viral DNA/RNA Mini Kit	(20)	(100)
Catalog No.	**LPVX20**	**LPVX100**
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)	100 pcs	500 pcs
Buffer DRVL	5 ml	24 ml
Buffer TLW1 (concentrate)	18 ml	36*2 ml
Buffer CCEB	10 ml	25 ml
BE solution	0.05 ml	0.24 ml
Proteinase K	0.5 ml	2.2 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

Purification of Viral Nucleic Acids (Spin Protocol)

This protocol is for purification of viral nucleic acids from 220 µl of fluid samples such as plasma, serum, urine, cell-culture media, or cell-free body fluids.

Procedure

1. Mix 220 µl of sample and 20 µl of Proteinase K in a 2 ml microcentrifuge tube (not provided).
2. Add 220 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 220 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. Apply all of the lysate to the Viral NA Spin Column placed in a 2 ml collection tube (supplied). Close the lid, and centrifuge at ≧8000 x g (≧10000 rpm) for 15 s. discard the tube containing the filtrate. Place the Viral NA Spin Column into a clean 2 ml collection tube.
7. Add 650 µl of Buffer TLW1 (wash buffer) into the Viral NA Spin Column. Close the lid, and centrifuge at ≧8000 x g (≧10000 rpm) for 15 s. Place the Viral NA Spin Column into a clean 2 ml collection tube, and discard the tube containing the filtrate.
8. Repeat step 7 once for additional washing.
9. Add 650 µl of ethanol (96–100%) into the Viral NA Spin Column. Close the lid, and centrifuge at ≧8000 x g (≧10000 rpm) for 1 min. Discard the filtrate.
10. 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.
11. Place the Viral NA Spin Column in a 1.5 ml Elution Tubes (provided). Add 50 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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