

USER'S GUIDE

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ExiPrep[™] Viral DNA Kit

ExiPrep[™] Viral RNA Kit

REF

K-3515
K-3525

***ExiPrep*[™] Viral DNA Kit**
***ExiPrep*[™] Viral RNA Kit**

User's Guide



Version No.: 1.0 (2018-12-10)

Please read all the information in booklet before using the unit



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Intended Use

ExiPrep™ Viral DNA Kit and *ExiPrep™* Viral RNA Kit are developed and supplied for research purposes only. Certain applications possible with this kit may require special approval by appropriate local and/or national regulatory authorities in the country of use.

Safety Warning and Precaution

Wear appropriate protection when handling any irritant or harmful reagents. The use of a laboratory coat, protective gloves and safety goggles are highly recommended. For more information please consult the appropriate Material Safety Data Sheet (MSDS).

Warranty and Liability

All Bioneer products undergo extensive Quality Control testing and validation. Bioneer guarantees quality during the warranty period as specified, when following the appropriate protocol as supplied with the product. It is the responsibility of the purchaser to determine the suitability of the product for its particular use. Liability is conditional upon the customer providing full details of the problem to Bioneer within 30 days.

Trademark

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1. Kit components

Cat. No.	<i>ExiPrep™</i> Plus Viral DNA/RNA Kit	
	Viral DNA (K-4271)	Viral RNA (K-4272)
Buffer Cartridge ①	6 ea	6 ea
Buffer Cartridge ②	6 ea	6 ea
Disposable Filter Tip	96 ea	96 ea
Elution Tube (8-strip)	12 ea	12 ea
Reaction Tube	1 ea	1 ea
User's Guide	1 ea	1 ea

2. Introduction

ExiPrep™ Viral DNA/RNA Kits are suitable to extract of viral DNA/ RNA from serum, plasma, CSF (Cerebrospinal fluid), BAL (Bronchoalveolar lavage), urine, swab and any cell free body fluid sample using automatic nucleic acid extractor, *ExiPrep™*.

3. Storage

ExiPrep™ Viral DNA/RNA Kits provide Buffer cartridge system. The Buffer cartridges contains binding buffer, washing buffer, elution buffer and magnetic bead solution for the nucleic acid extraction. Every Buffer cartridges were covered with sealing film to protect leakage, evaporation and cross contamination. The Buffer cartridges can be stored dry at room temperature (15°C–25°C) for up to 2 years without open.

ExiPrep™ Viral DNA/RNA Kits provide lyophilized enzymes such as proteinase K and carrier RNA for the convenient use. Lyophilized proteinase K and carrier RNA are pre-loaded into Buffer cartridge ①. It can be stored at room temperature (15°C – 25°C) up to 2 years without any reduced activity.

Provided disposable tips, reaction tubes and elution tubes are DNase and RNase free, please give attention to the nuclease contamination during storing.


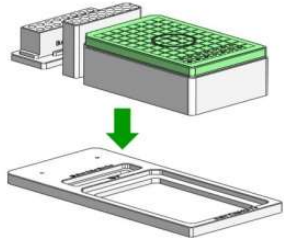
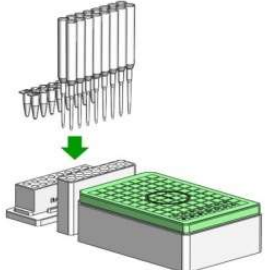
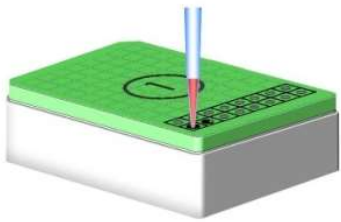
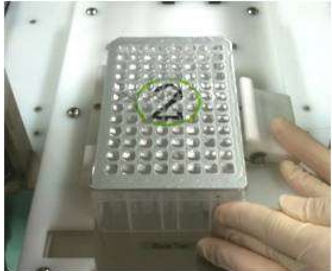
4. Starting volume


The amounts of starting volume and elution volumes are described in below.

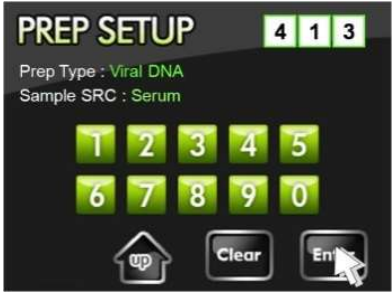
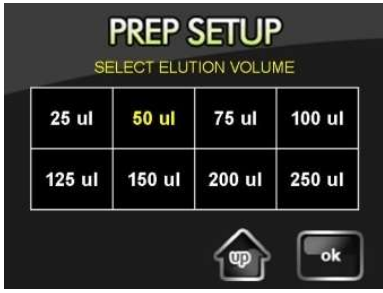



Sample type	Starting Volume	Elution Volume
Serum	200 µl	50 – 100 µl
Plasma	200 µl	50 – 100 µl
CSF	200 µl	50 – 100 µl
Urine	200 µl	50 – 100 µl
BAL	200 µl	50 – 100 µl
Cell free body fluid	200 µl	50 – 100 µl
Saliva	200 µl	50 – 100 µl
Swab	1 ea	50 – 100 µl

5. Viral DNA/RNA Extraction

This protocol is designed for extraction of Viral DNA/RNA from serum, plasma, CSF, urine, BAL and cell free body fluids.

	<ol style="list-style-type: none"> 1. Make holes with the hole-punch tool to correspond with the sample numbers. Before punching the hole, shake the Buffer cartridge gently to settle down the bead and buffers.
	<ol style="list-style-type: none"> 2. Place the Buffer Cartridge ①, Elution tube rack and Disposable tip rack on the setup tray.
	<ol style="list-style-type: none"> 3. Load the Disposable filter tips and Elution tubes onto the racks. Ensure that all tips and tubes are aligned in desired position.
	<ol style="list-style-type: none"> 4. Load 200ul of sample into the sample loading wells. Do not contaminate another well.
	<ol style="list-style-type: none"> 5. Place the Buffer Cartridge ② onto the proper position of the base plate. Please check the punched holes of the Buffer Cartridge ②.

	<p>6. Place the Buffer Cartridge ① onto the proper position of the base plate. Please check the punched holes of the Buffer Cartridge ①.</p>
	<p>7. Place the Elution tube rack onto the proper position of the base plate. The elution rack is slotted so it can only be placed in the correct orientation.</p>
	<p>8. Place the Disposable filter tip rack onto the proper position of the base plate.</p>
	<p>9. Place the Waste tray onto the proper position of the base plate between Buffer cartridge ① and Buffer cartridge ②. 10. Push the base plate back into the instrument and close the door.</p>
	<p>11. Place the Reaction tube rack onto the heating block of the base plate.</p>
	<p>12. Turn on the ExiPrep™ Plus. 13. Press the 'Start' button to access the PREP SETUP menu.</p>

	<p>14. Insert a protocol number according to the protocol number list (Page 7) about nucleic acid types and sample sources.</p> <p>15. Press the 'Enter' button to move to the next step.</p>
	<p>16. Select the elution volume from the touch screen.</p> <p>17. Press the 'ok' button to move to the next step.</p>
	<p>18. Verify the loaded every racks and buffer cartridges in the correct position on the base plate according to the 'CHECK LIST' like as followings.</p>
	<p>19. Verify the protocol name on the screen. The first two letters represent a type of nucleic acid you will purify, and the next two letters represent a sample source.</p> <p>20. Press the 'Run' button to start an extraction run.</p>
	<p>21. After the completion of the Instrument's operation, take the Elution tube from base plate first.</p> <p>22. Remove the buffer cartridges, each racks and Waste tray from the base plate and close the door.</p>

6. Troubleshooting

Low yield of viral DNA/ RNA

Did you add sufficient amount of samples? The yield is dependent on the sample type and amount. Sometimes overload sample may decrease the yield. Did you completely lyse the samples? Incomplete lysis decreases the yield and purity. Did you shake your Buffer cartridge ① before use? Incomplete suspension of the magnetic bead may decrease the yield and purity.

Co-eluted magnetic particle

Sometimes magnetic particle co-eluted with your viral DNA/RNA after viral DNA/RNA extraction. Co-eluted magnetic particle cannot bind viral DNA and RNA in elution buffer and it will not decrease the yield and purity. Co-eluted magnetic particles can easily separate by simple centrifugation.

7. Protocol Number List

No.	Target	No.	Target	Sample source
4 01	Viral DNA	5 01	Viral RNA	Whole blood
4 02		5 02		Animal tissue
4 12		5 12		Plasma
4 13		5 13		Serum
4 14		5 14		Buffy coat
4 15		5 15		Sputum
4 16		5 16		BAL
4 17		5 17		Saliva
4 18		5 18		Swab
4 19		5 19		Urine
4 20		5 20		Stool
4 21		5 21		Cell free body fluid
4 22		5 22		Pleural fluid
4 23		5 23		CSF
4 24		5 24		EPS
4 25		5 25		Respiratory sample
4 26		5 26		Amniotic fluid
4 27		5 27		Forensic sample
4 28		5 28		Bone marrow
4 29		5 29		Bone
4 30		5 30		Dried blood spot
4 31		5 31		Soil
4 32		5 32		Hair
4 33		5 33		Cell supernatant

8. Explanation of Symbols



Catalog
Number



Contains sufficient
for (n) tests



USE BY



Consult Instruction
For Use



Batch code



Caution, consult
accompanying
documents



Temperature
Limitation



Caution, Potential
Biohazard



Manufacturer



DO NOT
REUSE

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