WizPrep™ Viral DNA/RNA Mini Kit

IVD in vitro Diagnostic Use Only

REF W73050

DESCRIPTION

The WizPrep™ Viral DNA/RNA Mini Kit provides a fast and simple method to isolate viral DNA and/or RNA from various sample including blood, serum, plasma, body fluid or the supernatant of viral infected cell cultures.

The WizPrep™ Viral DNA/RNA Mini Kit uses silica-membrane technology to eliminate the cumbersome steps associated with loose resins or slurries. The kit is ready for use and can purify the viral nucleic acid from a wide variety of virus infected samples, and the whole process is completed in less than 20 minutes.

Purified viral DNA and/or RNA is suitable for PCR or RT-PCR assay.

KIT CONTENTS

Contents	100 prep	300 prep	Storage
VL Buffer	25 ml	80 ml	Room temp
W1 Buffer	55 ml	180 ml	Room temp
W2 Buffer (concentrate)(1)	18 ml	50 ml	Room temp
RNase-free water	10 ml	30 ml	Room temp
Proteinase K (lyophilized)*	22 mg x 2	22 mg x 6	4℃
Spin Columns**	100 pcs	300 pcs	Room temp
Instruction Manual	1 pcs	1 pcs	

- (1): Add absolute ethanol to the W2 Buffer prior to initial use (see the bottle label for volume).
- * After receiving the Proteinase K, please store at 4°C.

 After dissolved in distilled water, store the Proteinase K solution at 4°C for up to 3 months. For longer storage (up to 1 year), the Proteinase K solution should be divided into small aliquot and stored at -20°C.
- ** All Spin Columns are sterilized by electron beam.

REAGENTS AND EQUIPMENT TO BE SUPPLIED BY USER

- 96-100% ethanol (to prepare W2 Buffer)
- 1.5 ml microcentrifuge tubes
- Sterile RNase-free pipette tips and Manual pipettors
- · Centrifuge for microcentrifuge tubes
- Equipment for sample disruption and homogenization
- · Personal protection equipment (lab coat, gloves, goggles)

KIT SPECIFICATIONS

Parameter	Characteristics		
Format	Silca-membrane spin column		
Sample materials	200 ul of biological sample		
Elution volume	50 μl		
Preparation time	< 20 minutes		
Binding capacity	200 ug		

QUALITY CONTROL ANALYSIS

In accordance with Wizbiosolutions Inc. ISO 13485-certified Quality Management System, each lot WizPrep $^{\text{\tiny{M}}}$ Viral DNA/RNA Mini Kit is tested against predetermined specifications to ensure consistent product quality.

PROTOCOL

To check before start

- 1) Add 72(200)ml of 100% ethanol to the 18(50)ml of W2 Buffer.
- 2) Dissolve each vial of Proteinase K (22mg) in 1,100µl distilled water.

1. Lysis

- Add 200µl of sample to 1.5ml microcentrifuge tube. (Use up to 200µl whole blood, plasma, serum, body fluids or the supernatant of viral infected cell culture). if the sample volume is less than 200µl, adjust the sample volumne to 200µl with D.W or PBS.
- Add 200µl of VL Buffer and 20µl of Proteinase K (20mg/ml) and mix by vortexing.
- Incubate at 56°C for 10 minutes. During incubation, invert the tube every 5 minutes.

<u>Note:</u> If a precipitate has formed in VL Buffer, dissolve by incubating at 56°C before use.

2. Binding

- Add 200µl of 100% ethanol to the sample lysates and mix by vortexing briefly.
- Connect the Spin Column to 2.0ml Collection tube.
- Apply the mixture to the Spin Column and centrifuge for 1 min. at 13,000 rpm.
- · Discard the flow-through and re-connect with Spin Column.

3. Wash

- Add **500µl of W1 Buffer** to the Spin Column and centrifuge for 1 min. at 13,000 rpm.
- Discard the flow-through and re-connect with Spin Column.
- Add **700µl of W2 Buffer** (ethanol added) in the Spin Column and centrifuge for 1 min. at 13,000 rpm.
- Discard the flow-through and re-connect the Spin Column and centrifuge for 2 min. at 13,000 rpm.

4. Elution

- Connect the Spin Column and new 1.5 ml tube.
- Add 30-50µl of RNase-free Water and incubate at R/T for 1 min.
- Centrifuge for 1 min. at 13,000 rpm.
- Discard the Spin Column and eluted purified virla DNA and/or RNA for use next step.

5. Storage

 The purified DNA and/or RNA sample may be stored at -20°C for a few days. It is recommended that samples be placed at -70°C for long term storage.



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TROUBLESHOOTING

Problem	Possibility	Suggestions	
Low DNA/RNA yield	Samples not fresh or not properly stored	Sample can only be thawed not more than once.	
	Ethanol is not added after sample lysis	Repeat purification with new sample.	
	W1 Buffer and W2 Buffer are reconstituted wrongly	Repeat purification with new sample.	
	Spin Column is not dried before addition of Elution Buffer	• Ensure that Spin Column is spun dried at maximum speed for 3 minutes after addition of W2 Buffer.	
	RNA degraded	 Process sample immediately or if sample is stored for later use, ensure that sample is thawed on ice. Use disposable plasticware and pipette tips. Ensure that the purification is performed in an RNase-free environment. 	
Poor performance of eluted DNA/RNA in downstream applications	Eluted DNA/RNA contains traces of ethanol	• Ensure that the Spin Column drying step is carried out prior to elution.	
	Low concentration of eluted DNA/RNA	• Reduce the amount of Elution Buffer but not less than 30µl	

SYMBOL GLOSSARY

REF	Catalogue number		Manufacturer
LOT	Batch code	IVD	in-vitro diagnostic use only
1	Temperature limit	[]i	Instructions for use
₽	Use-by date		

ORDERING INFORMATION

Product	Cat No.	Package
WizPrep™ Viral DNA/RNA Mini Kit	W73050-100	100 prep
Wizi Tep Vilai BNA/NNA Willi Nit	W73050-300	300 Prep



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