

ZiXpress-32[®] Viral Nucleic Acid Extraction Kit

【Cat. No. and Packaging Specifications】



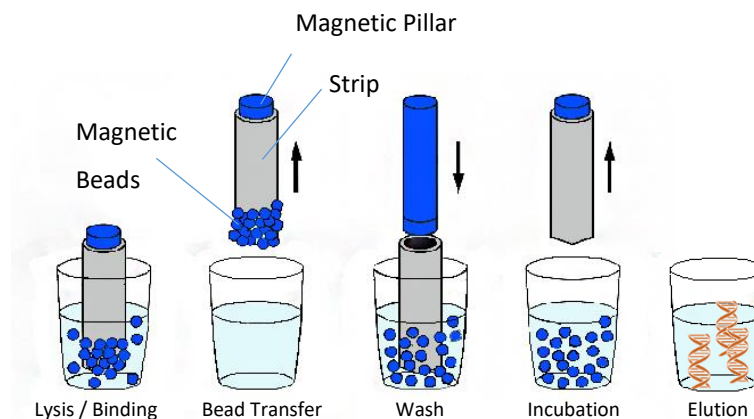
ZP02201-960 - Non Pre-filled Reagents for 960 Tests/Box (16 Tests/Plate x 60 Plates)

【Introduction - Zixpress-32[®] Magnetic Pillar Technology】

Zinexts Life Science is specialized in developing advanced, efficient and reliable technologies in nucleic acid purification, enabling successful delivery of extraction results from varied sample types.

The ZiXpress-32[®] Nucleic Acid Purification Platform utilizes permanent magnet rods to collect Magnetic Beads from a solution and release the beads into the well containing reagents for the next step of extraction.

The purification process contains four basic steps, sample lysis, nucleic acid binding, washing and elution. The effectiveness of bead collection and transfer ensures superior washing and elution efficiency.



【Intended Use】

The product purpose is to extract and purify viral nucleic acids from serum samples. The elution product has high purity and complete fragments. The nucleic acids purified by using the ZiXpress-32[®] assortment are suitable for a variety of biological samples, which are essential and broadly used in many molecular biology downstream applications as, genetic screening, sequencing, food safety, forensic, etc.

【Kit Contents】

Components	Volume	Quantity
Reagent plate (Non Pre-filled)	-	60
Mixing sleeves (8-Tip combs)	-	120
Proteinase K	20 ml	1
Magnetic Beads	10 ml	1
Lysis Buffer	700 ml	1
Wash A Buffer A	900 ml	1
Wash A Buffer B	900 ml	2
Elution Buffer	120 ml	1

【Reagent Plate Components】

Add each volume of buffer to the 96well plate as follows:

Well No.	Components	Volume
1/7	Lysis Buffer	700 μ l
2/8	Wash Buffer A	900 μ l
3/9	Wash Buffer B and Magnetic Beads	900 μ l / 10 μ l
4/10	Wash Buffer B	900 μ l
5/11	Empty	-
6/12	Elution Buffer	100 μ l

【Storage & Stability】

Reagent Plate and Accessory Consumables should be stored at room temperature. **Do not** freeze the Reagent Plate. Proteinase K is suggested to be stored at 2 - 8 °C. Zinexts Life Science guarantee that all components are stable for 12 months when stored properly.

【Sample Requirements】

- a. Sample type: Serum or Plasma
- b. Sample storage: Fresh or stored at 2 - 8 °C for up to 24 hours, for long-term storage, freezing at -20°C is recommended.
- c. Sample volume: 200 μ l

【Elution Product Requirements】

- a. Elution Volume: 100 μ l
- b. Store the purified total nucleic acid at 4 °C (short-term, less than 10 days) or aliquot and store at - 70 °C (long-term) before perform the downstream analysis.

【Operation Protocol】

1. Consumables Preparation

Set up the mixing sleeves on the mixing sleeve track, and make sure the mixing sleeves enter the mixing sleeve track completely.

2. Reagents Plate Preparation

- a. Add 200 μ l serum or plasma to Well 1 and Well 7, which contains the pre-filled lysis buffer, and mix the sample with the lysis buffer 3 - 5 times by pipetting gently.
- b. Add 20 μ l Proteinase K to Well 1 and Well 7, and mix 3 times by pipetting gently.

3. Automated Extraction Set up

- a. Place the Reagent Plate in the ZiXpress-32[®] Instrument after adding of the samples / Proteinase K.
- b. Edit and run the experiment program as following:

Step No.	Well	Name	Standby (min)	Mix (min)	Volume (μ l)	Mix Speed	Mag (sec)	Temp (°C)
1	3	Transfer	0	1	900	3	60	--
2	1	Lysis	0	5	900	3	60	70
3	2	Washing 1	0	1	900	3	60	--
4	3	Washing 2	0	1	900	3	60	--
5	4	Washing 3	0	1	900	3	60	--
6	6	Elution	10	1	100	3	60	80
7	4	Waste	0	1	900	3	0	--

- c. While the experiment program is finished, transfer the extracted products located at well 6 and well 12 into nuclease-free tubes, and store the purified total nucleic acid at 4 °C (short-term, less than 10 days) or aliquot and store at - 70 °C (long-term) before performing the downstream analysis.

【Product Properties】

- a. ZiXpress-32[®] Instrument and Reagent Kits are not intended for the use as part of a specific in vitro diagnostic test. The user is responsible for establishing performance characteristics necessary for downstream applications. Appropriate controls must be included in any downstream diagnostic applications that uses nucleic acid purified by ZiXpress-32[®] Instrument and Reagent kits.
- b. The ZiXpress-32[®] Viral Nucleic Acid Extraction Kit performs at high-efficiency extracting Viral Nucleic Acid from serum and plasma samples.

【Precautions】

Please read the instructions before using the kit:

- a. When working with chemicals or samples, always wear a suitable lab coat, disposable gloves, and protective goggles. All of experiment supplies, such as pipettes, tubes, tips must be autoclaved. Operator should wear gloves and masks.
- b. Before usage, the ZiXpress-32[®] Nucleic Acid Purification Platform should be disinfected with the internal UV light program. We recommend cleaning the instrument with 75% ethanol and disinfecting it by UV light program in the instrument.
- c. Proteinase K is suggested to be stored at 2 - 8 °C.
- d. After the experiment, all samples and reagents must be reasonably disposed.
- e. Magnetic Beads may occasionally appear in the elution buffer. If so, please avoid to pipet the Magnetic Beads while transferring the extracted elution product.

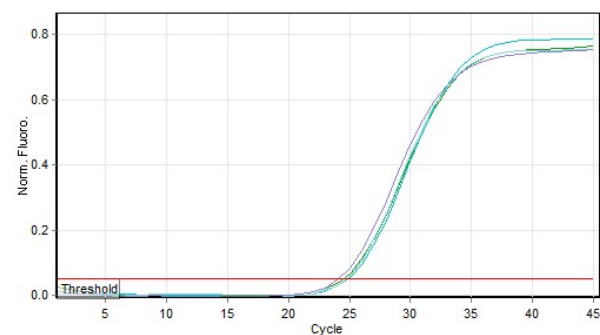
【Starting Material】

Sample Type	Serum, Plasma, CSF, Cell free body fluids
Target Nucleic Acid	Total Viral Nucleic Acids (DNA and RNA)
Sample Volume	200 µl Serum or Plasma * If the sample is below 200 µl, could supplement the PBS to fill up 200 µl.
Controls/Optional Internal control[#]	Add controls / internal control in the extraction procedure if the downstream analysis needed
Elute Volume	100 - 1000 µl

【Expected Purity and Yield】

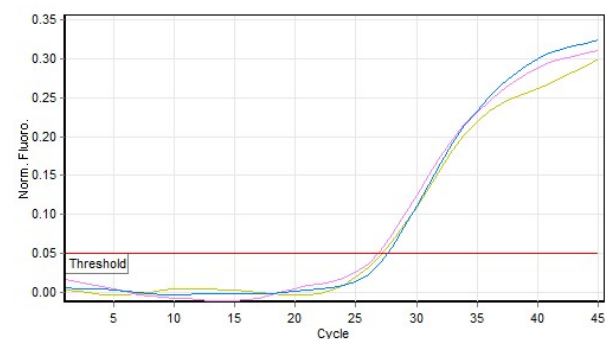
Using HBV serum from patients as sample to extract Viral DNA by ZiXpress-32[®] Viral Nucleic Acid Extraction Kit. 200 μ l sample was extracted and eluted in 100 μ l. 30 μ l elution was used for real-time PCR by AmpliSens[®] HCV/HBV/HIV-FRT PCR kit. Three repeat samples can be detected, proving the excellent reproducibility of the isolation procedure.

Quantitation data for Cycling A.Green



Using HCV serum from patient as sample to extract Viral RNA by ZiXpress-32[®] Viral Nucleic Acid Extraction Kit. 200 μ l sample was extracted and eluted in 100 μ l. 30 μ l elution was used for real-time PCR by AmpliSens[®] HCV/HBV/HIV-FRT PCR kit. Three repeat samples can be detected, proving the excellent reproducibility of the isolation procedure.

Quantitation data for Cycling A.Green



【Warranty】

Zinexts Life Science is committed to providing our customers with high-quality products and services. Our goal is to ensure that every customer is 100% satisfied with our products and our services. If you have any questions or concerns about our product or service, contact our Technical Support Representatives.

Zinexts Life Science guarantees the performance of all products according to specifications stated on our product literature. The purchaser/user must determine the suitability of the product for its particular use. We reserve the right to change, alter, or modify any product to enhance its performance and design.

This warranty limits Zinexts Life Science Corporation's liability only to the cost of the product. No warranty is granted for products beyond their listed expiration date. No warranty is applicable unless all product components are stored in accordance with instructions.

【Satisfaction Guarantee】

For any product that fails to perform satisfactorily due to any reason other than unintended use, Zinexts Life Science will replace it F.O.C., simply call your distributor to get a replacement!

【Technical Support】

For technical assistance and further information, please visit our website www.zinexts.com, contact our Technical Support or your local distributor.

【Manufacturer Information】

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