

ZiXpress® Tissue Genomic DNA Extraction Kit



【Cat. No. and Packaging Specifications】

ZP02204-096 - Pre-filled Reagents for 96 Tests/Box (8 Tests/Plate × 12 Plates)

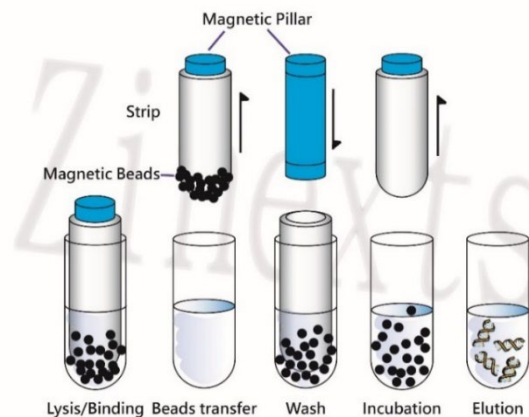
ZP02204-192 - Pre-filled Reagents for 96 Tests/Box (16 Tests/Plate × 12 Plates)

ZP02204-960 - Pre-filled Reagents for 96 Tests/Box (16 Tests/Plate × 60 Plates)

【Introduction - ZiXpress® 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® Nucleic Acid Purification Platform utilizes permanent magnet rods to collect magnetic beads from the solution and release the beads into wells containing reagent 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.



Product Name	ZiXpress® Tissue Genomic DNA Extraction Kit
Catalogue Number	ZP02204-096, ZP02204-192, ZP02204-960
Applicable Instrument Model	ZiXpress® 32 & ZiXpress® 64 (First & Second generation) Instrument
Displayed Protocol Name on The Instrument	Tissue
Processing Time	ZiXpress® 32 series 42 minutes ZiXpress® 64 series 42 minutes

【Intended Use】

The product purpose is to extract and purify genomic DNA from tissue sample. The elution product has high purity and complete fragments. The nucleic acids purified by using the ziXpress® assortment are suitable for a variety of biological samples, which are essential and broadly used in many molecular biology downstream applications such as, genetic screening, sequencing, food safety, forensic, etc.

【Kit Content】

Catalogue Number: ZP02204-096, ZP02204-192

	ZP02204-096	ZP02204-192
Components	Quantity	
Reagent 96 Plate (Pre-filled)	(8 x 12) 96	(16 x 12) 192
8-Tip Comb	(8 x 12) 96	(16 x 12) 192
Binding Buffer 5	30 ml x 1	60 ml x 1
BL6 Buffer	30 ml x 1	60 ml x 1
Proteinase K (10 mg/ml)	1 ml x 2	1 ml x 4

Catalogue Number: ZP02204-960

Components	Quantity
2.2 ml Deepwell 96 plate (Non Pre-filled)	(16 x 12 x 5) 960
8-Tip Comb	(16 x 12 x 5) 960
Proteinase K (10 mg/ml)	20 ml x 1
Magnetic Beads B	40 ml x 1
Lysis Buffer A	400 ml x 1
Wash Buffer Z1	900 ml x 1
Wash Buffer A	900 ml x 1
Wash Buffer B	900 ml x 1
Elution Buffer	150 ml x 1
BL6 Buffer	300 ml x 1
Binding Buffer 5	300 ml x 1

【 Reagent Plate Content 】

Well No.	Components	Volume
1/7	Lysis Buffer A	400 μ l
2/8	Wash Buffer Z1	900 μ l
3/9	Wash Buffer A and Magnetic Beads	940 μ l
4/10	Wash Buffer B	900 μ l
5/11	Empty	-
6/12	Elution Buffer	150 μ l

【 Storage & Stability 】

Reagent Plates and Accessory Consumables should be stored at room temperature. **Do not** freeze the Reagent Plates. Proteinase K is suggested to be stored at 2-8°C. Zinexts Life Science guarantee that all components are stable for 18 months when stored properly.

【 Sample Requirements 】

- a. Sample type: Tissue samples, etc.
- b. Sample storage: Tissue lysates are always freshly prepared and processed immediately. When the DNA separation step is delayed, the lysate should be stored at -15°C to -20°C or lower.
- c. Sample volume: 200 μ l

【 Elution Requirements 】

- a. Elution volume: 150 μ l
- b. Store the purified 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.

【 Operation Protocol 】

1. Consumables Preparation

- a. Turn on the power switch and wait for the screen to show the Home Page.
- b. Set up the 8-Tip Combs on the 8-Tip Comb track, and make sure the 8-Tip Combs enter the track completely.

2. Reagents Plate Preparation

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- a. Add 200 µl BL6 Buffer to a new 1.5 ml microcentrifuge tube, and add less than 40 mg tissue sample into BL6 Buffer. Then add 20 µl Proteinase K to the tube, incubate at 55°C in a water bath or thermomixer (mixing at 1000 rpm) until the tissue is completely lysed.
- b. Remove the aluminum foil sealing membrane on the reagent plate and avoid splashing liquids. Add 200 µl tissue lysate to Well 1 and Well 7, which contains the pre-filled lysis buffer. Mix the sample with the lysis buffer 3-5 times by pipetting gently.
- c. Add 300 µl Binding Buffer 5 to Well 1 and Well 7.

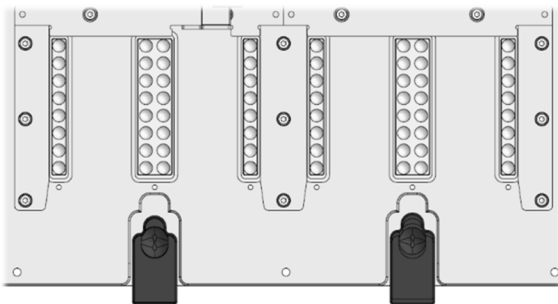
Catalogue Number: ZP02204-960

- a. Add 200 µl BL6 Buffer to a new 1.5 ml microcentrifuge tube, and add less than 40 mg tissue sample into BL6 Buffer. Then add 20 µl Proteinase K to the tube, incubate at 55°C in a water bath or thermomixer (mixing at 1000 rpm) until the tissue is completely lysed.
- b. Load the specified buffer into specified wells of the 96 Plate according to Reagent Plate Content listed above.
- c. Add 200 µl tissue lysate to Well 1 and Well 7, which contains the pre-filled lysis buffer. Mix the sample with the lysis buffer 3-5 times by pipetting gently.
- d. Add 300 µl Binding Buffer 5 to Well 1 and Well 7.

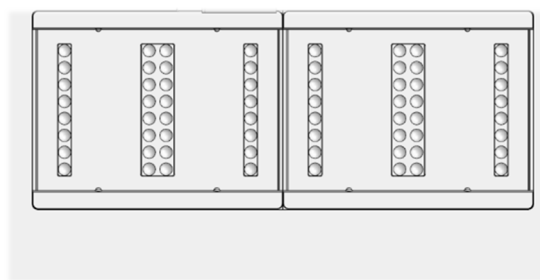
3. Automated Extraction Setup

- a. (1) Put the reagent plate on the plate track and release heater locks. (For first generation)
(2) Insert the reagent plate into the plate track and ensure it fit well. (For second generation)
(Note: Please check the direction of “recognition corner” on the Reagent 96 plate, it must be on the left.)

First generation:



Second generation:



- b. Close the instrument door.
- c. Protocol Selection: Select the appropriate protocol program on the instrument or edit a new protocol on the blank space. (Page1 to Page 12)

Tissue process as below: (Process time: 42 minutes)

Step No.	Well	Name	Standby (min)	Mix (min)	Volume (μl)	Mix Speed	Mag (sec)	Temp (°C)
1	3	Transfer	0	1	900	3	60	--
2	1	Lysis	0	20	940	2	40	75
3	2	WASH 1	0	3	900	3	40	--
4	3	WASH 2	0	2	900	3	40	--
5	4	WASH 3	0	0	900	3	40	--
6	6	ELUTE	5	5	120	3	60	80
7	4	WASTE	0	1	900	3	0	--

- d. Press “▶” to start the process.
- e. After the experiment program is finished, transfer the extracted products located at Well 6 and Well 12 into nuclease-free tubes. Store the purified 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.

【Precautions】

Please read the instructions before using the kit:

- a. When working with chemicals or clinical samples, always wear a suitable lab coat, disposable gloves, and protective goggles. All of the experiment supplies, such as pipettes, tubes, tips must be autoclaved. Operator should wear gloves and masks.
- b. Before using, the ZiXpress® 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 performing the 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 properly disposed.
- e. Magnetic beads may occasionally appear in the elution buffer after extraction. If so, please carefully avoid the magnetic beads while transferring the extracted elution product.

Please report any serious incident occurred in relation to the device to your local representative/ agent or the manufacturer, and to the competent authority of your country/state.

【Starting Material】

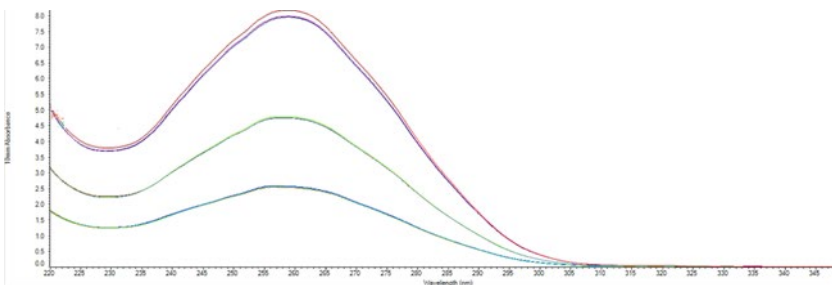
Sample Type	Skeletal muscle tissue/Dried swab samples (e.g. Buccal cells)
Target Nucleic Acid	Total DNA
Sample Volume	200 μ l (< 40 mg)
Controls/Optional Internal Control	Add controls/internal control in the extraction procedure if needed for downstream analysis.
Elution Volume	150 μ l

【Expected Purity and Yield】

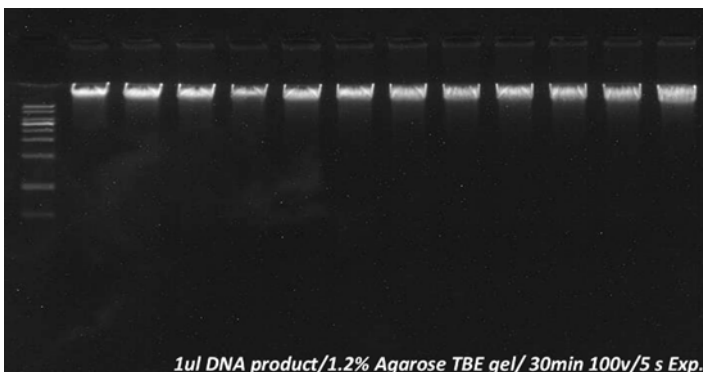
DNA was purified from three different weights of muscle tissue by ZiXpress® Instrument and Tissue DNA extraction Kit. DNA concentration was measured by NanoDrop® 2000 spectrophotometer. The range of DNA yield is 9-36 μ g (from 12.5-40 mg tissue).

Sample Type	Sample Amount	Typical DNA Yield
Skeletal muscle	200 μ l (lysate of 12.5 mg tissue)	Up to 9 μ g
	200 μ l (lysate of 25 mg tissue)	Up to 18 μ g
	200 μ l (lysate of 40 mg tissue)	Up to 36 μ g
Buccal cells	1 Swab	0.8-4 μ g

DNA concentration Measured by NanoDrop® 2000 spectrophotometer








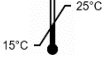





Electrophoresis gel of the same sample in 12 repeats (5 mg tissue)



【Symbols】

The following symbols are used on labels and in Instructions for Use (IFU), in compliance with EN ISO 15223-1 standard.

Symbol	Explanation
	CE mark
	For In Vitro Diagnostic Use
	Catalogue number
	Lot/Batch number
	Sufficient for [n] samples
	Instructions for Use / Handbook
	Expiry date
	Storage temperature (15°C - 25°C)
	Manufacturer
	European Authorized Representative
	Caution

【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 services. If you have any question or concerns about our products or services, contact our Technical Support Representatives.

Zinexts Life Science guarantees the performance of all products according to specifications stated on our product literature. The purchasers/users must determine the suitability of the product for their 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.

【Technical Support】

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

【Product List】

Catalog Number	Packaging Specification (Adapted System)
ZP02204-096-WH	Pre-filled Reagents for 96 Tests/Box (1st generation ZiXpress 32)
ZP02204-096-BL	Pre-filled Reagents for 96 Tests/Box (2nd generation ZiXpress 32/64)
ZP02204-192-WH	Pre-filled Reagents for 192 Tests/Box (1st generation ZiXpress 32)
ZP02204-192-BL	Pre-filled Reagents for 192 Tests/Box (2nd generation ZiXpress 32/64)
ZP02204-960-WH	Non-Pre-filled Reagents for 960 Tests/Box (1st generation ZiXpress 32)
ZP02204-960-BL	Non-Pre-filled Reagents for 960 Tests/Box (2nd generation ZiXpress 32/64)
ZP02204-960-B-BL	Non-Pre-filled Reagents for 960 Tests/Box (Bottles only, without consumables, 2nd generation ZiXpress 32/64)
ZP02204-960-C-BL	Non-Pre-filled Reagents for 960 Tests/Box [Bottles (No ethanol) only, without consumables & Proteinase K, 2nd generation ZiXpress 32/64]

【Manufacturer Information】

Manufacturer: Zinexts Life Science Corp.
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Product of Origin: Taiwan (R.O.C.)

【Revision History】

Version	Date	Description
3.4	25. Aug. 2022	Packaging specification of ZP02201-960-C-BL corrected



Version: 3.4
Rev. Date: 25.08.2022



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