

“MagQu” Cell nucleic acid extraction kit

REF KT-CDR-001C-MQ1

For Research Use Only

Product description:

“MagQu” Cell nucleic acid extraction kit is used for the purification of total nucleic acids from cells by manual method. The purified nucleic acids are suitable for downstream applications such as Real-Time PCR, PCR and other molecular experiments.

Reagents:

| Item | Cat. No. |
|--|-----------------|
| “MagQu” cell nucleic acid extraction kit1 box (96 tests) | KT-CDR-001C-MQ1 |

Storage:

Please keep the kit at room temperature. The validity is warranted for one years.

Statement of Warnings:



BIOHAZARD

All products or objects that come in contact with human body fluids should be handled, before and after cleaning, as if capable of transmitting infectious diseases. Wear facial protection, gloves, and protective clothing.

1. Do not freeze.
2. Please keep away from events with strong magnetism.
3. Do not use reagents beyond the expiration date printed on the kit.
4. Mix Magnetic beads thoroughly before use.

Contents:

This kit contains reagents for 96 reactions with standard volume input.

| Item | Volume (ml) | Storage |
|--------------------------------|-------------|------------------|
| Lysis buffer | 40 | Room temperature |
| Binding buffer | 35 | Room temperature |
| Magnetic beads | 1 | Room temperature |
| Wash buffer 1 (Add ethanol) | 18 (42) | Room temperature |
| Wash buffer 2 (Add ethanol) | 18 (72) | Room temperature |
| Elution buffer | 10 | Room temperature |

Preparation of buffers for use:

1. Add 42 ml ethanol to Wash Buffer 1 and mix well. Check the box on the bottle and cap.
2. Add 72 ml ethanol to Wash Buffer 2 and mix well. Check the box on the bottle and cap.
3. Mix Magnetic beads thoroughly before use.

Required materials not supplied:

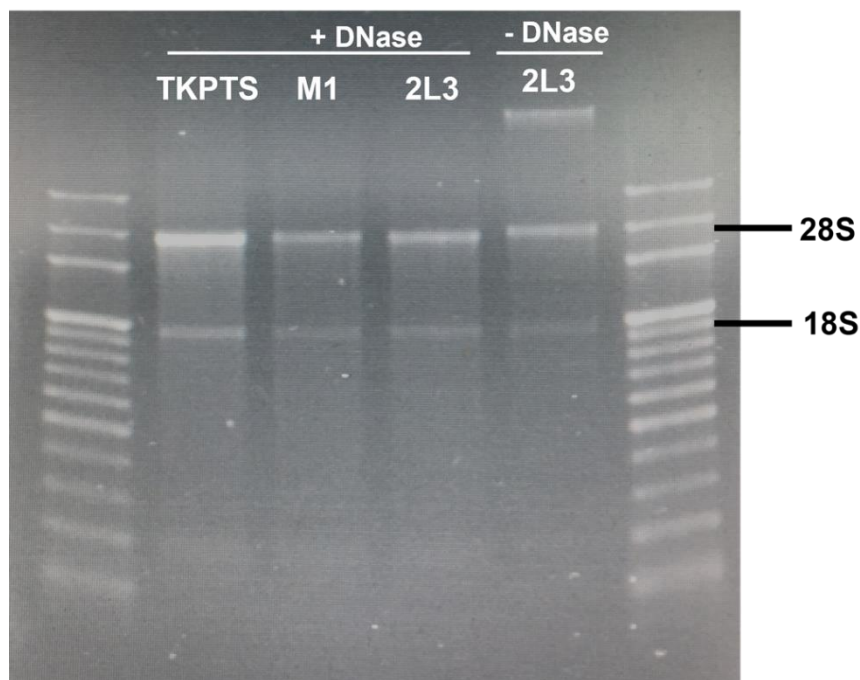
| Procedure | Item |
|-------------------|---|
| Manual operation | <ul style="list-style-type: none"> ● Orbital shaker ● Hot plate ● Magnetic pins / rods / stand (MDF-08) ● Nuclease-Free water ● Eppendorf ● Pipetman & Tip ● Ethanol |
| Automated Machine | <ul style="list-style-type: none"> ● Automatic magnetic separation system ● 96 deep well plate ● Pipetman & Tip |

Manual nucleic acid purification protocol:

1. Add 400 μ l of Lysis Buffer into the eppendorf.
2. Lysis step: Transfer 200 μ l PBS (cells) into eppendorf. Incubate and shake at room temperature for 10 mins.
3. Binding step: Add 350 μ l binding buffer and 10 μ l of Magnetic Beads into the eppendorf











- and shake on shaker for 10 mins.
4. Use magnetic pins / rods / stand to capture the Magnetic Beads for 2 mins, then discard the supernatant.
 5. Wash step1: Add 600 μ l wash buffer 1 into the eppendorf. Shake on shaker for 1 min.
 6. Use magnetic pins / rods / stand to capture the Magnetic Beads for 1 min, then discard the supernatant.
 7. Wash step2: Add 450 μ l wash buffer 2 into the eppendorf. Shake on shaker for 1 min.
 8. Use magnetic pins / rods / stand to capture the Magnetic Beads for 1 min, then discard the supernatant.
 9. Wash step 3: Add 450 μ l wash buffer 2 into the eppendorf. Shake on shaker for 1 min.
 10. Use magnetic pins / rods / stand to capture the Magnetic Beads for 1 min, then discard the supernatant.
 11. Dry out the magnetic beads for 10 mins, and preheat the elution buffer to 56°C.
 12. Elution step: Add 100-400 μ l Elution buffer into the eppendorf, mix 5 mins.
 13. Use magnetic pins / rods / stand to capture the magnetic beads at least for 5 mins.
 14. Transfer the elute from eppendorf to a new eppendorf for final storage (-20 or -80°C).

Results:



Total RNA extraction from cultured cell on 6-well plate

Glossary/symbol definition:

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---|--|--|-------------------------------|
|  | Caution, refer to accompanying documents |  | Consult instructions for use. |
|  | Batch code |  | Temperature limitation |
|  | Catalogue number, |  | Manufacturer |
|  | Content |  | Do not use if package damaged |
|  | Use by Expressed as: CCYY-MM-DD | | |
|  | Biological risk | | |



Manufacturer:

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