PI-BIOTECH
genética avançada

PI-CLEAR
nucleic acid purification kit

Pi-Clear nucleic acid purification kit - Total RNA

ATTENTION: Before starting the assay, read the item "Special Care" in "User Guide".

Spin Column – PB1	50 units (spin column + collection tube)
Lysis Buffer – TL	15 mL
Wash Buffer 1 – TP1	50 mL
Wash Buffer 2 – TP2	**OBS:** 80 mL of Ethanol 96-100 % must be added Final volume: 100 mL
Recovery tube (1,5 mL) – PB2	50 units
RNase-free Water – PB3	15 mL

Storage: room temperature (15 - 25 °C)

Required materials: Ethanol 96-100% and extra DNase/RNase-free microtubes.
Validated procedure: suspension cells (PBS), monolayer cells, cell pellets (≤1,0 x 10^6) and animal tissues.

Procedure

A) Sample Lysis

1. Add sample into a clean, sterile and DNase/RNase-free microtube;
   Obs: prepare sample as described in "Instruction for Use";
2. Add 200 µL Lysis Buffer (TL) and vortex;
3. Add 400 µL Ethanol 70% and vortex.

Sample

+ 200 µL TL
vortex
+ 400 µL Ethanol 70%
vortex

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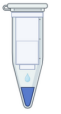
Nucleic acid Extraction and Purification

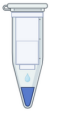
B) Binding

4. Transfer up to 700 µL of the sample to spin column with the collection tube (PB1);
5. Centrifuge at 6.800 x g for 1 minute;
6. Discard the flow-through;
7. Repeat steps 4-6 until the entire sample is processed.



C)Washing

8. Add 700 µL Wash Buffer 1 (TP1);
9. Centrifuge at 12.000 x g for 15 seconds;
10. Discard the flow-through;
11. Add 500 µL Wash Buffer 2 (TP2);
12. Centrifuge at 6.800 x g for 1 minute;
13. Discard the flow-through;
14. Repeat steps 11-13 once;
15. Centrifuge the spin column at 12.000 x g for 2 minutes to dry the membrane with bound RNA;
16. Discard the collection tube and insert the spin column into a recovery tube (PB2).



D) Elution

17. Add 30-100 µL RNase-free Water (PB3) to the center of spin column;
18. Incubate at room temperature for 1 minute;
19. Centrifuge at 12.000 x g for 2 minutes and discard the spin column;
20. Store your purified RNA at -20 °C.
    For long-term storage, keep the purified RNA at -70 °C.

Access the complete "User Guide"