



TANBead® Nucleic Acid Extraction Kit

Tissue RNA Auto Tube

(for use with the SLA-16/32 and SLA-E132 Series)

REF 6K2S46

1. Purpose

TANBead® Nucleic Acid Extraction Kit (REF 6K2S46) is employed in a variety of animal cells or tissues for RNA isolation, as well as viral nucleic acid purification. This high-performance kit with TANBead® Nucleic Acid Extractor (SLA-16/32, SLA-E132 Series), unlike traditional RNA extraction methods, can handle up to 32 samples. It saves manual steps, reduces human error, the possibility of cross-contamination, and is very suitable for laboratories with large volume of samples.

Principle: The silicon dioxide layer coated on the magnetic beads can absorb negative charged molecular in order to purify nucleic acid from samples.

Sample Types: 2~5 x 10⁵ cells and 30 ~ 50 mg tissues

Suitable Instrument: SLA-16/32, SLA-E132 Series

2. Kit Components and Storage Conditions

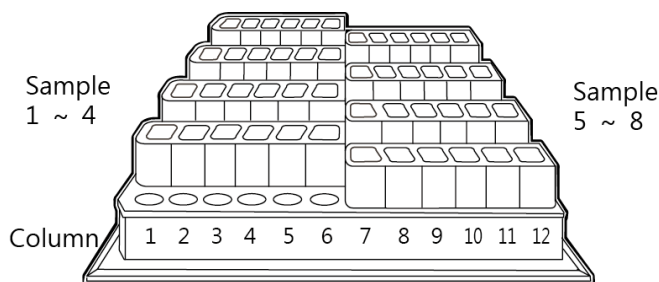
REF 6K2S46		▽ 96 Assays
Auto Tube	96	6 well tube with reagent buffers
Base	2	A rack for 8 Auto Tubes
Lysis Buffer	90 ml	Guanidine salt, Tris buffer, surfactants
Elution Buffer	20 ml	Nuclease-Free Water
Strip	24	8-channel strip
Protocol	1	Instruction guide for user

Storage Conditions:

- Components under room temperature (15~35 °C) can be stored until the expiration date labeled on the box.

Assembled Auto Tubes Content

Column	Buffer Solution	Volume
1/7	-	-
2/8	Washing Buffer 1	800 µl
3/9	Magnetic Beads	800 µl
4/10	Washing Buffer 3	800 µl
5/11	Washing Buffer 3	800 µl
6/12	Elution Buffer	100 µl



3. Product Use Information

- Do not use expired kits.
- When room temperature is below 20 °C. Please warm the Auto Plate/Tube at 42 ~ 60 °C for 5 ~ 10 min.
- Do not shake the reagent vigorously in order to avoid the excess foam formation.
- Do not expose plate/tube and bottle reagent to air for a long time, to avoid evaporation and changing pH then affecting purification efficiency.
- All reagents should be transparent and colorless. The existence

of colors indicates that the reagent is contaminated. Please replace another plate to continue following procedure.

- Before use, inspect the completeness of the Auto Plate/Tube and strips.
- Please wear a mask and disposable gloves when manipulation.
- Remove the aluminum foil carefully to avoid splashing of the reagent solution.
- Please use sterile consumables, and make sure that they are all nuclease free.
- The procedures may not be changed.
- Because the reagent buffers contain guanidine salts, it is prohibited from washing with any detergents that contain bleach.
- All reagents are to avoid contact with the eyes, skin, and clothes. If any contact or splashing has occurred, rinse with abundant amount of water.

4. Required but not provided

- Isopropanol Alcohol (Molecular biology degrade)**

5. Nucleic acid extraction protocol

Before operating, turn on the warm-up system of TANBead® Nucleic Acid Extractor, if it is equipped with temp controller, please setting at 45°C

Prepare the Assembled Auto Tubes by inserting Auto Tubes into the Base completely.

Preparing samples

a. For cell (2~5 x 10⁵ cells)

- Cultured cells are centrifuged at 3000 RPM ,4°C for 10 minutes and then remove supernatant thoroughly.
- Resuspend the pellet with 500 µl Lysis Buffer, and incubation on ice for 10 minutes.

b. For tissue (30 ~ 50 mg tissues)

- Use 800 µl Lysis Buffer to homogenize tissue sample.
- Mix well and stand for 10 minutes on ice.
- Centrifuge at 6000 RPM for 5 minutes.

Preparing Assembled Auto Tube

- Carefully remove the aluminum foil from Auto Tube.
- Transfer **450 µl lysate** into **column #1/#7**.
- Load **450 µl IPA** into **column #1/#7**.
- Push Assembled Auto Tubes completely to the bottom of plate rack. Make sure that the missing corner faces toward the door panel.
- Push strips completely to the bottom of strip rack frame.
- Close the door panel.
- Select the program “**B10-W4-AUTO**”. The parameters are given in following section.
- Once the program has ended, buzzer shall alarm. Take out Assembled Auto Tubes carefully.
- Use micropipette to transfer the purified nucleic acid from column #6/ #12 to a clean tube.
- Put the used Auto Tube and strips into the waste recovery can.

6. Program

Program Name: B10-W4-AUTO					Model: SLA-16/32, SLA-E132 Series				
Step	Well	Temp(°C)	Mixing (M)	Collect (S)	Rod	Mixing Speed	Volume (µl)	Pause	Vapor (M)
1	3	45	0.1	60	ON	Medium	800	OFF	0
2	2	45	0.5	60	ON	Medium	800	OFF	0
3	1	45	10	60	ON	Medium	900	OFF	0
4	2	45	2	60	ON	Medium	800	OFF	0
5	3	45	2	60	ON	Medium	800	OFF	0
6	4	45	2	60	ON	Medium	800	OFF	0
7	5	45	2	60	ON	Medium	800	OFF	10
8	6	45	10	120	ON	Medium	150	OFF	0
9	5	NA	0.1	0	OFF	Medium	800	OFF	0
10	0	NA	0	0	OFF	Medium	0	OFF	0

7. Result

- Total nucleic acid yield: 2~5 µg

8. Explanation of Symbols



Manufacturer



Temperature limitation



Use by



Contains sufficient for <N> tests



Batch code



Consult instructions for use



Catalog number



For in vitro diagnostic use

