



TANBead® RNA Extraction Kit

REF 6K3S46 (for use with the SLA-16/32 and SLA-E132 Series)



1. Purpose

TANBead® RNA Extraction Kit (**REF** 6K3S46) 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: 30 ~ 100 mg plant tissues

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

2. Kit Components and Storage Conditions

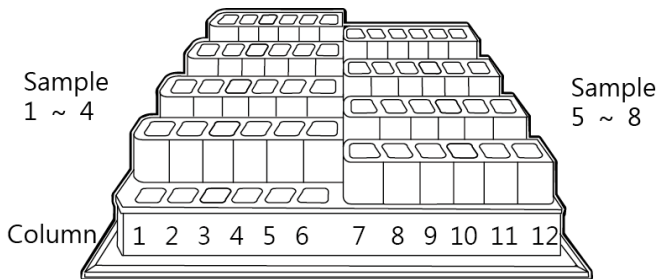
REF 6K3S46		96 Assays
Reagent Tube	96	6 well tube with reagent buffers
Base	2	A rack for 8 Reagent Tubes
Lysis Buffer	45 ml x 2	Guanidine salt, Tris buffer, surfactants
Elution Buffer	20 ml	Nuclease-Free Water
Strip	24	8-channel strip
Protocol	1	Instruction guide for user

Storage Conditions:

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

Assembled Reagent Tubes Content

Column	Buffer Solution	Volume
1/7	Binding Buffer	300 µl
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

- 1) Do not use expired kits.
- 2) When room temperature is below 20 °C. Please warm the reagent plate/tube at 42 ~ 60 °C for 5 ~ 10 min.
- 3) Do not shake the reagent vigorously in order to avoid the excess foam formation.
- 4) Do not expose plate/tube and bottle reagent to air for a long time, to avoid evaporation and changing pH then affecting purification efficiency.

- 5) 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.
- 6) Before use, inspect the completeness of the reagent plate/tube and strips.
- 7) Please wear a mask and disposable gloves when manipulation.
- 8) Remove the aluminum foil carefully to avoid splashing of the reagent solution.
- 9) Please use sterile consumables, and make sure that they are all nuclease free.
- 10) The procedures may not be changed.
- 11) Because the reagent buffers contain guanidine salts, it is prohibited from washing with any detergents that contain bleach.
- 12) 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. 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 Reagent Tubes by inserting Reagent Tubes into the Base completely.

- 1) Use 800 µl Lysis Buffer to homogenize tissue sample.
- 2) Mix well and stand for 10 minutes at room temperature.
- 3) Centrifuged at 6000 RPM for 5 min.
- 4) Carefully remove the aluminum foil from reagent plate.
- 5) Load **500 µl lysate** into **column #1/#7** of reagent plate.

Note: The volume ratio of mixture and lysis buffer is about 500 µl : 300 µl. If it is changed, it might be affected the performance.

- 6) Push reagent plate completely to the bottom of plate rack. Make sure that the missing corner faces toward the door panel.
- 7) Push strips completely to the bottom of strip rack frame.
- 8) Close the door panel.
- 9) Select the program "**VIRUS-W4-AUTO**". The parameters are given in following section.
- 10) Once the program has ended, buzzer shall alarm. Take out reagent plate carefully.
- 11) Use micropipette to transfer the purified nucleic acid from column #6/ #12 to a clean tube.
- 12) Put the used reagent plate and strips into the waste recovery can.
- 13)
- 14) Put the used reagent tubes and strips into the waste recovery can.

5. Program

Program Name: VIRUS-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	1	60	ON	Medium	800	OFF	0
2	2	45	1	0	OFF	Medium	800	OFF	0
3	1	45	20	0	OFF	Low	900	OFF	0
4	2	45	0	60	ON	Medium	800	OFF	0
5	1	45	10	60	ON	Medium	900	OFF	0
6	2	45	2	60	ON	Medium	800	OFF	0
7	3	45	2	60	ON	Medium	800	OFF	0
8	4	45	2	60	ON	Medium	800	OFF	0
9	5	45	2	60	ON	Medium	800	OFF	10
10	6	45	5	120	ON	Medium	150	OFF	0
11	5	NA	1	0	OFF	Medium	800	OFF	0

6. 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

