



# TANBead® RNA Extraction Kit



**REF** 665A46 (for use with the SLA-16/32 and SLA-E132 Series)

## 1. Purpose

TANBead® RNA Extraction Kit (**REF** 665A46) is suitable for extract a variety of viral nucleic acids, the most common is applied with hepatitis C virus, hepatitis B virus, influenza virus, etc. To use this Kit only need to mix specimens and Proteinase K, then followed by transferring to the reagent plate. Through TANBead® Nucleic Acid Extractor (SLA-16/32, SLA-E132 Series) to conduct lysis, washing and elution steps. It spends only 40 minutes; the final product of nucleic acid can be directly process to analysis. For example: Real-Time PCR, RT-PCR.... With high sensitive, this reagent kit is suitable for clinical research and inspection units.

**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:** 300 µl serum or PBS suspension

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

## 2. Kit Components and Storage Conditions

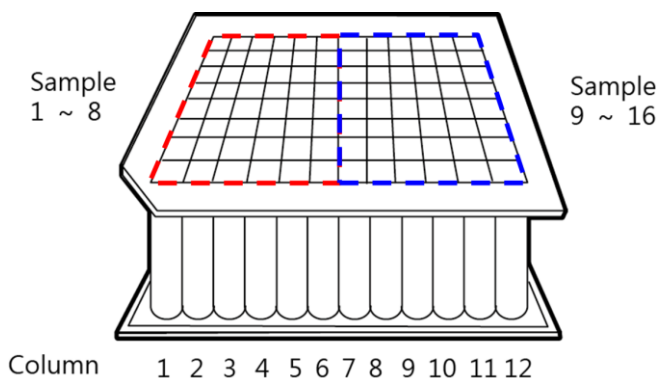
<b>REF</b> 665A46		96 Assays
Reagent Plate	6	96 well plate with reagent buffers
Elution Buffer	1.5 ml	Nuclease-Free Water
Proteinase K	1 ml	20 mg/ml Proteinase K, store at 4°C
Strip	12	8-channel strip
Protocol	1	Instruction guide for user

Storage Conditions:

1. Components under room temperature (15~35 °C) can be stored until the expiration date labeled on the box.
2. The Proteinase K was transported at room temperature. When received, please store at 4°C.

Reagent Plate Content

Column	Buffer Solution	Volume
1/7	Lysis Buffer	600 µl
2/8	Washing Buffer 1	800 µl
3/9	Washing Buffer 2	800 µl
4/10	Washing Buffer 2	800 µl
5/11	Magnetic Beads	800 µl
6/12	Elution Buffer	80 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 should 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 50°C.

- 1) Carefully remove the aluminum foil from reagent plate.
- 2) Pipet **300 µl serum or PBS suspension** and **10 µl Proteinase K** into **column #1/ #7** of reagent plate.

**Note:** The volume ratio of mixture and lysis buffer is about 300 µl : 600 µl. If it is changed, it might be affected the performance.

- 3) Push reagent plate completely to the bottom of plate rack. Make sure that the missing corner of reagent plate faces toward the door panel.
- 4) Push strips completely to the bottom of strip rack frame.
- 5) Close the door panel.
- 6) Select the program “**VIRUS-40-5**”. The parameters are given in following section.
- 7) Once the program has ended, buzzer shall alarm. Take out reagent plate carefully.
- 8) Use micropipette to transfer the purified nucleic acid from column #6/ #12 to a clean tube.
- 9) Put the used reagent plate and strips into the waste recovery can.

## 5. Program

Program Name: VIRUS-40-5					Model: SLA-16/32, SLA-E132 Series				
Step	Well	Temp (°C)	Mixing (M)	Collect (S)	Rod	Mixing Speed	Volume (µl)	Pause	Vapor (M)
1	5	50	0	60	ON	Medium	800	OFF	0
2	1	50	10	60	ON	Low	800	OFF	0
3	2	50	1	60	ON	Medium	800	OFF	0
4	3	50	1	60	ON	Medium	800	OFF	0
5	4	50	1	60	ON	Medium	800	OFF	10
6	6	50	5	60	ON	Medium	150	OFF	0
7	3	NA	1	0	OFF	Medium	800	OFF	0
8	0	NA	0	0	OFF	Medium	0	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

