



1. Intended Use

TANBead® Nucleic Acid Extraction Kit (REF) 61EA46) has excellent performance and can be applied to most of the blood samples, especially for those viscous blood samples, which are usually difficult to handle, frozen blood stored at -20°C as an example. Samples are processed through a series of automatic extraction steps. The nucleic acid products have high purity with an extremely low salt content, no contaminants of proteins and inhibitors. It can be directly applied for the downstream tests, such as the polymerase chain reaction (PCR), enzyme reactions, DHPLC (Denaturing high-performance liquid chromatography), and other clinical tests.

<u>Principle:</u> The silicon dioxide layer coated on the magnetic beads can adsorb the negatively charged molecules to purify nucleic acid from samples.

Sample Types: 250~300 μl whole blood, frozen blood or buffy coat Suitable Instrument: SLA-16/32, SLA-E132 Series

2. Kit Components and Storage Conditions

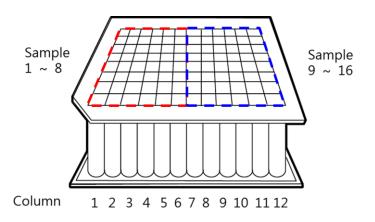
REF 61EA46		∇ 96 Assays
Auto Plate	6	96 well plate with reagent buffers
Elution Buffer	1.5 ml	Nuclease-Free Water
Proteinase K	1 ml	Store at 4°C
Strip	12	8-channel strip
Protocol	1	Instruction guide for user

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 is transported at room temperature. When received, please store proteinase K at 4° C.

Auto Plate Content

Column	Buffer Solution	Volume
1/7	Lysis Buffer	500 μl
2/8	Washing Buffer 1	800 μ1
3/9	Magnetic Beads	800 μ1
4/10	Washing Buffer 2	800 μ1
5/11	Washing Buffer 2	800 μ1
6/12	Elution Buffer	130 μ1



3. Precaution

- 1) Do not use expired kits.
- 2) When room temperature is below 20 °C. Please warm the Auto Plate/Tube at $42 \sim 60$ °C for $5 \sim 10$ min.
- Do not shake the reagent vigorously in order to avoid the excess foam formation.
- 4) Do not expose Auto 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 Auto 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 70° C.

- 1) Push strips completely to the bottom of strip rack frame.
- 2) Carefully remove the aluminum foil from Auto Plate.
- Add sequentially ① 250~300μl blood and ② 10μl Proteinase
 K into column #1/#7 of Auto Plate.
- 4) Push Auto Plate combined with conducting plate which is attached to column #1/ #7 completely to the bottom of plate rack. Make sure that the missing corner faces toward the door panel.
- 5) Close the door panel.
- 6) Select the program "61E". The parameters are given in following section.
- Once the program has ended, buzzer shall alarm. Take out Auto Plate carefully.
- 8) Use micropipette to transfer the purified nucleic acid from column #6/ #12 to a clean tube.
- 9) Discard used Auto Plate and strips.

5. Program

• SLA-16/32

Program Name: 61E				Model: SLA-16/32 Series					
Step	Well	Mixing (M)	Collect (S)	Rod	Mixing Speed	Volume (µl)	Pause	Vapor (M)	
1	3	1	30	ON	Medium	800	OFF	0	
2	2	1	0	OFF	Medium	800	OFF	0	
3	1	12	0	OFF	Low	900	OFF	0	
4	2	0	30	ON	Medium	800	OFF	0	
5	1	8	30	ON	Medium	900	OFF	0	
6	2	1	30	ON	Medium	800	OFF	0	
7	3	1	30	ON	Medium	800	OFF	0	
8	4	1	30	ON	Medium	800	OFF	0	
9	5	1	30	ON	Medium	800	OFF	5	
10	6	5	30	ON	Medium	150	OFF	0	
11	5	1	0	OFF	Medium	800	OFF	0	
12	0	0	0	OFF	Medium	0	OFF	0	

• SLA-E132

Progra	m Nam	e: 61E	Model: SLA-E132 Series						
Step	Well	Temp (℃)	Mixing (M)	Collect (S)	Rod	Mixing Speed	Volume (µl)	Pause	Vapor (M)
1	3	70	0.5	30	ON	Medium	800	OFF	0
2	2	70	0.5	0	OFF	Medium	800	OFF	0
3	1	70	12	0	OFF	Low	900	OFF	0
4	2	60	0	30	ON	Medium	800	OFF	0
5	1	60	8	30	ON	Medium	900	OFF	0
6	2	45	1	30	ON	Medium	800	OFF	0
7	3	45	1	30	ON	Medium	800	OFF	0
8	4	45	1	30	ON	Medium	800	OFF	0
9	5	45	1	30	ON	Medium	800	OFF	5
10	6	45	5	30	ON	Medium	150	OFF	0
11	5	NA	0.2	0	OFF	Medium	800	OFF	0
12	0	NA	0	0	OFF	Medium	0	OFF	0

The setting of temperature and mixing time are slightly modified by different versions of SLA extraction machine.

6. Explanation of Symbols

Manufacturer Manufacturer	Temperature limitation	Use by	∑ Contains sufficient for <n> tests</n>
LOT Batch code	(i) Consult instructions for use	REF Catalog number	IVD For in vitro diagnostic use
Caution			

7. European Authorized Representative

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