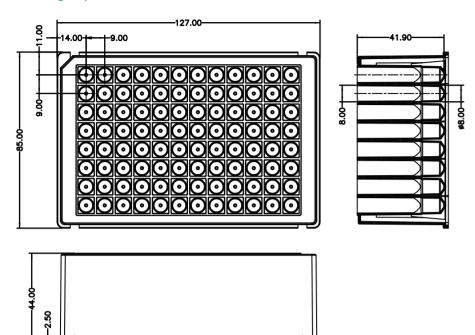
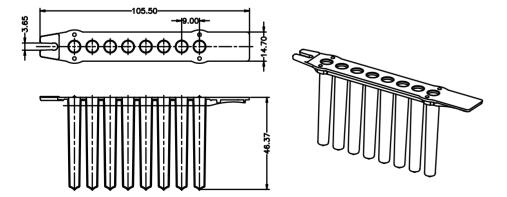
[Product size]

Rreagent plate



Magnetic rod sleeve



Name of the filing entity/manufacturing company: Wuxi NEST Biotechnology Co., Ltd.

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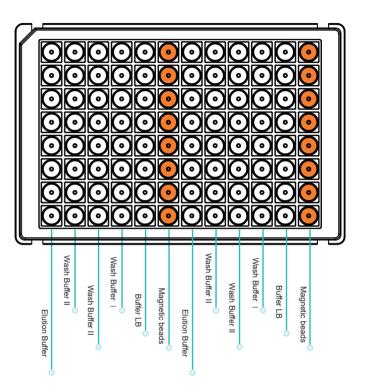
Jiangsu Province

Production filing certificate number:\$C906

Version No.:

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Operating Instruction

Nucleic Acid (DNA/RNA) Extraction Kit



Notice: Please read the instruction of this product carefully and follow the operation instructions. Appropriate protective glasses, clothes and gloves are required during operation. [Common name] Nucleic Acid (DNA/RNA) Extraction Kit

[Commercial name] Magnetic Bead-Based Nucleic Acid (DNA/RNA) Extraction Kit

[Product number] SC906

[Packing specification] 64T/kit

[Intended use] Extraction, enrichment and purification of nucleic acid

[Transportation condition] Room temperature

[Preservation condition] Room temperature or 2-8°C for long-term storage

[Period of validity] 12 months

[Applicable instrument] TECHSTAR YC702 Nucleic Acid Automatic Extraction System

[Product introduction]

Magnetic Bead-Based Nucleic Acid (DNA/RNA) Extraction Kit is intended for the genomic DNA/RNA extraction of pathogenic microorganisms from serum, plasma, cultured cells, saliva, alveolar lavage fluid, nasopharyngeal aspirates and swabs samples with TECHSTAR YC701 Nucleic Acid Automatic Extraction System. The reagent kit is provided with the magnetic beads and buffer solution system featuring unique separation functions, with the special chemical group on the magnetic beads surface exerting extremely strong enrichment forces to DNA/RNA under given conditions for reversible release of DNA/RNA when conditions change, so as to separate and purify DNA/RNA as soon as possible and minimize impurities such as the protein. The DNA/RNA extracted with this kit is applicable to various downstream molecular biology experiments, such as qPCR, sequencing and genetic typing.

[Product components]

Product name	Quantity and Specification	
Preloaded reagent plate	16 T/plate, 4 plates/kit	
Proteinase K	1.3 mL/tube, 1 tube/kit	
Magnetic rod sleeve	8 tips/strip, 8 strips/kit	

Impo rtant No tes! Fo r preservation, please place all reagent plates and reagents uprightly at room temperature (15 °C-25 °C).

[Reagent Preloading Location]

Well	Reagent	Volume
Columns 1 and 7	Elution Buffer	100µL
Columns 2 and 8	Wash Buffer II	600µL
Columns 3 and 9	Wash Buffer II	600µL
Columns 4 and 10	Wash Buffer I	600µL
Columns 5 and 11	Buffer LB	500µL
Columns 6 and 12	Magnetic beads	200µL

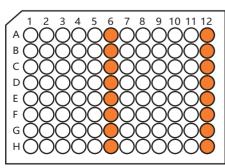


Diagram of Reagent Plate

[Operation procedures]



1. Sample pretreatment

- 1)Serum or plasma: it should be a light yellow clear liquid without solid impurities, and no additional processing is required.
- 2)Cultured cells: with the supernatant discarded after centrifugation, it is used for extraction after being resuspended in normal saline or phosphate buffer.
- 3)Saliva, alveolar lavage fluid and nasopharyngeal aspirates: collected in accordance with related operation specifications. Thick samples must be extracted after liquidation.

4)Swabs: Including oropharyngeal swabs, nasopharyngeal swabs, genital swabs, etc. Put the swab into 0.5-1mL normal saline or phosphate buffer solution, stir for 2 minutes, Squeeze out the liquid and discard the swab, and the liquid is to be used for extraction. If the swab is stored in preservative fluid, the preservation fluid can be used directly for extraction.



2. Reagent plate preparation

- 1)Before removing the sealing film, gently swing the reagent plate downward to concentrate the liquid or magnetic beads attached to the sealing film to the bottom of the plate.
- 2)Place the reagent plate on the workbench, carefully tear off the sealing film to avoid the vibration of the reagent plate, prevent liquid from splashing
- Important Notes! If the sealing film is layered during unsealing, it is recommended to tear it off from the opposite direction.



3.Sample addition

- 1)Add 200µL pretreated sample to each well in Columns 5 and 11 of the reagent plate (samples of less than 200µL are recommended to make up to 200 µL with normal saline).
- 2)Add 20µL Proteinase K to each well in Columns 5 and 11.

Notice: 1) The 200 µL sample should be free of obvious solid impurities. If any, the supernatantshould be taken by centrifugation for extraction. 2 Liquid addition sequence must not be changed. The sample is added earlier than proteinase K solution.



4.Instrument operation

- 1)Turn on the TECHSTAR YC702 nucleic acid automatic extraction system, place the reagent plate filled with sample and Proteinase K into the corresponding position, activate "Program 1" to start extraction (for detailed operating procedures, please refer to the User's Manual for TECHSTAR YC702 Nucleic Acid Automatic Extraction System).
- 2)After the instrument operation is completed, take out the reagent plate, the isolated and purified nucleic acid solution is contained in the Columns 1 and 7 of the reagent plate, which can be used directly for further test or be transferred into a new centrifuge tube for storage at -20°C for future use. It is recommended to store below -70°C for long-term preservation.

[Notes]

- 1.As a disposable product, this product cannot be reused.
- 2.Preservation of the reagent plate in low-temperature places such as the refrigerator may lead to relatively high solution viscosity or sediments. For such sediments found before operation, please heat the reagent plate at 37 °C and mix it gently to dissolve the sediments. Bubbles must be prevented during mixing.
- 3. Repeated freezing and thawing of the reagent plate are forbidden, otherwise the magnetic bead may be
- 4. For ruptured or layered sealing film when tearing the sealing film of the reagent plate, it is recommended to tear it off from the opposite direction.
- 5.Please operate carefully, as the solution contains a guanidine salt protein denaturant, which is corrosive. If it accidentally splashes on the skin, please rinse with plenty of water.
- 6. The reagent plate must be used within 30 minutes after unsealing, as long-term placement may affect the extraction effect.
- 7.To prevent reduced activity of proteinase K, sample should be added before proteinase K.
- 8.Fresh sample extraction is recommended. Repeated freezing and thawing of samples may lead to significantly decreased quantity of the nucleic acid.
- 9.As RNA is easily degraded, please use Rnase-free consumables. The nucleic acid must be used shortly after extraction and purification. If not, please store at 20 °C. Long-term storage is recommended below 70 °C.

[Requirement for use]

- 1. The collection, transportation and storage of samples should comply with relevant specifications.
- 2.All samples, considered as a potential biological hazard, must be prevented from contact with skin or mucous membranes. Sample processing and operation should comply with relevant laws and regulations.
- 3.Discarded consumables and tips generated during the experiment are treated as medical waste.
- 4. Kits with damaged packaging or liquid leakage must not be used.

[Symbol description]



Automatically invalid after one-time use



Do not use the product, if the package has been damaged or opened



Important warnings requiring users to refer to the instruction



Refer to the instructions for details

[Quality assurance]

- 1.For quality problems resulted from manufacturing within the warranty period under the conditions of preservation, transportation and use specified in the instruction, users may contact the company or its designated agent.
- 2.Material cost, logistic expenses and travel expenses due to product damages resulted from operations in violation of the instruction within the warranty period are borne by the user.
- 3. Indicators and functions described herein may be changed or modified without prior notice.

