For In Vitro Diagnostic Use Only

For Prescription Use Only

reOpenTest

Nucleic Acid（DNA/RNA）Extraction Kit

For Catalog Number: SC903-25; SC903-50; SC903-100.

INTENT OF USE

The Nucleic Acid（DNA/RNA）Extraction Kit is suitable for extraction of DNA or RNA of bacteria, mycoplasma, chlamydia or virus from serum or plasma, cultured cell, saliva, alveolar lavage fluid, nasopharyngeal aspirates, oropharyngeal swabs, nasopharyngeal swabs and genital swabs. The kit uses the column that can specifically bind nucleic acid and the unique buffer system, and the column that employ silicon matrix material can efficiently and specifically absorb nucleic acid as well as remove impurity proteins and other organic compounds in cell to the greatest extent. The extracted genome fragment is large, high purity, stable and reliable.
The nucleic acid extracted by the kit contains only a few impurities, and can be directly used in LAMP, PCR and other routine nucleic acid detection projects.

WARNINGS AND PRECAUTIONS

1. It is recommended to use fresh samples for extraction. Repeated freeze-thaw Samples will lead to a significant decrease in nucleic acid acquisition. When extracting RNA, the consumables used in the extraction process should be treated without RNase.
2. Please add anhydrous ethanol as described on the bottle label before the first use of Buffer WA and Buffer WB (Be sure to use measuring implement without RNase)
3. Any sample should be treated as a potential biological hazard and not contact with skin and mucous membrane. The sample should be handled and operated in accordance with relevant regulatory requirements.
4. Waste consumables and tips generated during experiment are treated as clinical waste.
5. Please read this manual carefully and operate strictly according to the operation procedure.

REAGENTS AND MATERIALS SUPPLIED

Kit Composition	SC903-25	SC903-50	SC903-100
Buffer L	5.5 mL	10.5 mL	10.5 mL×2
Proteinase K	0.5 mL	1.0 mL	1.0 mL×2
Column	25 Piece	50 Piece	50 Piece×2
Buffer WA	8.9 mL	17.8 mL	17.8 mL×2
Buffer WB	3.5 mL	7.0 mL	7.0 mL×2
Buffer TE	3.0 mL	5.2 mL	5.2 mL×2

KIT STORAGE AND STABILITY

- Store in dark at (4-30℃) Room Temperature for 12 months.
- Normal Temperature transportation.
- Production date: see label.
- Expiration date: see label.

PREPARE BEFORE USE

- 1.5 mL centrifuge tube: two/each sample
- Ethyl alcohol: 200μL/ each sample
- Pipette and tip: 200μL, 1000μL
- Thermostatic metal bath（or water bath kettle）: 56℃
- Centrifuge

OPERATING PROCEDURE

1. Sample Treatment

Serum or plasma: yellow clarified liquid without solid impurities, can be extracted directly.
Cultured cell: can be extracted directly or centrifuged at 5000×g for 2min and then the precipitate is resuspended with sterile PBS or saline solution.
Saliva, alveolar lavage fluid and nasopharyngeal aspiration: should be collected in accordance with relevant operating specifications, if it's sticky and unable to absorb, extraction after liquefaction.
Swabs: including oropharyngeal swab, nasopharyngeal swab, genital swab, etc. Put the swab into 1-2mL saline solution or phosphate buffer, stir repeatedly for two minutes, squeeze the liquid out of the swab and discard, and the liquid is used for subsequent extraction. If the swab is prestored in storage solution, which can be extracted directly.

2. Sample Lysis

Take a new 1.5mL centrifuge tube, then add successively 200μL treated sample, 200μL Buffer L and 20μL protease K. After vortex the mixture is placed in a 56℃-metal bath for 15min, during which the mixture is mixed once. Short Spin to collect residual liquid on the tube wall.

3. Nucleic Acid Isolation

Add 200μL ethyl alcohol to the above 1.5mL centrifuge tube and mix the liquid upside down for 30s.

4. Adsorption

Add the solution obtained in previous step to a column and centrifuge at 12,000 rpm (~13,400×g) for 30s. Discard the waste liquid in the collection tube and place the column into the collection tube.

5. Washing

(1) Add 500μL cleaning Buffer WA (please check whether anhydrous ethanol has been added before use) and centrifuge 30s at 12,000 rpm (~13,400×g). Discard the waste liquid in the collection tube and place the adsorption column into the collection tube.
(2) Add 500μL cleaning Buffer WB (please check whether anhydrous ethanol has been added before use) and centrifuge 30s at 12,000 rpm (~13,400×g). Discard the waste liquid in the collection tube and place the adsorption column into the collection tube.

6. Drying

After centrifugation at 12,000 rpm (~13,400×g) for 2 min, place the column at room temperature for several minutes to dry the residual ethanol in the adsorption material thoroughly.

7. Elution

Transfer the adsorption column into a 1.5mL centrifuge tube, add 50μL-100μL buffer TE preheated at 56℃ to the middle position of the adsorption membrane, place at room temperature for 2-5 min, centrifuge at 12,000 rpm (~13,400×g) for 2 min and collect the solution into the centrifuge tube. The isolated and purified nucleic acid solution can be directly used in the next step or stored in the -20℃ refrigerator for standby.

reOpenTest

ORDERING

1. Contact reOpenTest's distributors or
2. Visit reOpenTest website: http://www.reopentest.com

CUSTOMER SERVICE

Contact your local representative
or find country-specific contact information with
E-mail: service@reopentest.com

Wuxi Techstar Technology Co., Ltd.
Address: Rd No.117, Meicun Road Street, Xinwu District, Wuxi City, Jiangsu, China.

Caretechion GmbH.
Address: Niederrheinstr 71, 40474 Duesseldorf, Germany
Tel: +49-211-3003 6618

ISO 15223 Symbols

CE	This product fulfils the requirements of the Directive 98/79/EC on in vitro diagnostic medical device
	Read instructions for use
	Use by
	Do not re-use
	Do not use if package is damaged
	Temperature limit
	Keep away from sunlight
Σ	Contains sufficient for <n> tests
EC REP	Authorized Representative in the European Community / European Union
LOT	Batch code
REF	Catalog number
IVD	In vitro diagnostic medical
SN	Serial number
	Manufacturer
	Date of manufacture
	Caution