

Product Manual

Disposable Sampler, Saliva Collection Kit

1. Introduction

The disposable sampler saliva collection kit is a harmless and painless method for obtaining DNA/RNA. As it will not cause any discomfort to the collection object, it is easy to be accepted. Therefore, it could maximize the sampling range for gene studies. The disposable sampler saliva collection kit mainly includes a funnel, a saliva collecting vial, a storage vial (contains 2.0 ml preservation solution) and the saliva collecting vial cap.

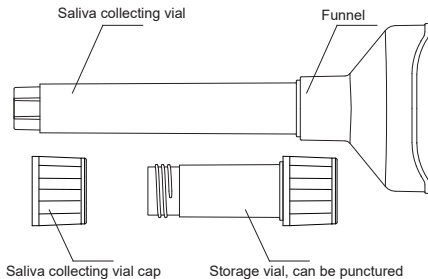
After being mixed with saliva, the preservation solution can be stored at room temperature. The preservation solution contains guanidinium and ion descaling agent, etc., which can lyse viruses and cells and release proteins and nucleic acids, among which proteins, such as DNA enzymes and RNA enzymes, will be rapidly lysed and denatured. In addition, reductants and protectants in the preservation solution can protect the released nucleic acid from being degraded at room temperature. This product is easy to carry and easy to operate. With relatively high integrity after being kept in the preservation solution, the nucleic acids in microorganisms can be used in a range of biological experiments such as enzymolysis PCR and next generation sequencing (NGS). It is widely adopted for sample collection and preservation in hospitals, research institutions and families.

Note: This product is disposable. It is only used for sample collection, transportation and storage. It shall not be used beyond its intended purposes.

⚠ Contraindication: N/A

1.1 Product Composition

Component	Qty	Remarks
Funnel	1	The funnel and the saliva collecting vial are assembled before packaging
Saliva collecting vial	1	
Saliva collecting vial cap	1	HDPE
Storage vial (contains 2.0 ml preservation solution), can be punctured	1	guanidinium, reductant, solvent (purified water), etc.
Bar code labels	4	Self-adhesive label with the same bar code
Sample bag	1	Self-seal PE bag



1.2 Product Performance

Main performance indicators: appearance, size, net content, etc.

1.3 Scope of Application

This product is used for collection, transportation and storage of oral saliva samples.

1.4 Model & Specification

Model: NSM09B

Specification: 2.0 ml/ vial

1.5 Product Characteristics

- The collection process is simple, convenient and easy to operate.
- Flexible to use, can be easily collected in the laboratory, clinic, or even at home.
- The inactivated preservation solution could provide good protection for medical personnel.
- The collected saliva samples are stable, able to be kept at room temperature and convenient to transport.
- It is suitable for a wide range of object groups, especially for children and patients who do not meet the blood sample collection conditions.
- The non-invasive collection of samples will not cause any discomfort to the collection objects, reducing the chance of infection and improving safety.

1.6 Use Requirements

- It is used at normal room temperature, and shall be kept at room temperature after sample collection.
- At room temperature, DNA samples can be stably stored for 12 months, and RNA samples can be stably stored for 1 month.

2. Operation Instructions

- Clean the mouth with drinking water and fast 30 minutes before saliva sample collection. Do not eat, drink, smoke or chew gum.
- Before collecting saliva, relax your cheeks and gently massage cheeks with fingers for 15~30 seconds to produce saliva. Gently spit saliva into the funnel until the liquid saliva (non-bubble) reaches the height of 2.0 ml scale line. Saliva samples collected shall be free of impurities and sputum. Don't spit all over the vial.
- Hold the Hold the storage vial in hand and keep it upright, screw the bottom of the storage vial into the saliva collection cup and tighten it. The bottom of the storage vial will be punctured automatically, and the storage liquid in the vial will flow into the saliva collection vial.
- Keep the collecting vial upright, unscrew the funnel, take out the clean saliva collecting vial cap from the packing box, screw and tighten it on the saliva collecting vial. The vial caps have a choking hazard. Keep out of reach of children.
- Turn the collecting vial upside down for 10 times to fully mix saliva and preservation solution.
- Take out a bar code from the packing box and stick it on the saliva collecting vial, then put the collecting vial with bar code and two bar codes into the sample bag for storage, transportation or testing, and the remaining bar code is kept by the user for subsequent information feedback.

3. Maintenance and storage

In case of transportation by car or other vehicles, shipping package must be sturdy enough to protect the product from damage during normal transportation.

In case of transportation by open-top vehicle in rainy days, the packing box shall be covered with a tarpaulin and lap joints of tarpaulin shall ensure that rainwater flows to both sides so that the products in the packing box will not be immersed in rainwater.

The product shall be kept at room temperature in a dry, clean and well-ventilated environment without corrosive gases and protected from direct sunlight. The service life of the product is 12 months.

4. Cautions

4.1 Symbols on The Label

- ⌚ Discard after a single use
- ⚠ Important warning requiring the user to refer to the manual

📖 Refer to the manual for other contents.

🚫 Do not use if the package is damaged or opened.

4.2 Safety Requirements

- If the individual package is damaged before use, do not use it.
- If the preservation solution is turbid or leaks out and the tube is broken, do not use it.
- Do not use the product when its service life expires or its packaging is damaged.
- Do not eat the preservation solution.
- In case of accidental ingestion, please go to the hospital immediately.
- Do not pour or spill the preservation solution.
- Direct exposure to the preservation solution is prohibited.
- When testing specimens, protective measures such as gloves and masks shall be taken and the testing shall be conducted in a laboratory that meets the safety level.
- The waste sample collection liquid shall be handled as medical waste.
- Keep this product out of reach of children (or those with mental retardation).
- This product is disposable. It is only used for collection, transportation and storage of samples. It shall not be used beyond intended purposes.

⚠ 1. If you're accidentally exposed to the preservation solution, immediately clean it with plenty of clean water.

2. If the preservation solution gets into your mouth or eyes or is swallowed accidentally, seek medical treatment immediately.

4.3 Use Requirements

- Read the product manual carefully before use.
- Strictly follow the operating procedures.
- Do not eat, drink, smoke or chew gum 30 minutes before saliva sampling.
- High-quality DNA fragments with high molecular weight can be separated from the samples collected by this product within the stable storage period. In view of the individual differences of samples, the specific storage period of different samples varies.
- Dispose used product properly as medical waste.
- Use the product within its service life. The collected samples shall be tested within the stable storage period.
- ⚠ The waste sample collection liquid shall be handled as medical waste.

5. Faults & Solutions

Fault	Cause	Solution
Saliva flows slowly	Saliva is more viscous, easy to hang the vial's wall.	Tap the vial wall lightly
The saliva collection cup is misplaced	Not assembled in place.	Manually adjust.
Preservation solution flows slowly or not at all.	The storage vial is not screwed to the bottom.	Screw the storage vial to the bottom and tighten it.

6. Quality Assurance

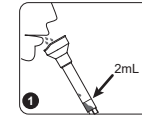
- In case of any quality problems due to manufacturing reasons arising under the conditions of storage, transportation and use specified in this manual, the user can seek solution from the Company or the agent designated by the Company.
- During the warranty period of the product, the user shall bear the costs of materials, logistics, travel expenses incurred by any damage of the product due to non-compliance with this manual.
- Indicators and functions in this manual are subject to change without notice after registration.

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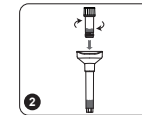
Disposable Sampler, Saliva Collection Kit Operation Instructions



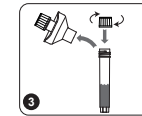
Clean the mouth with drinking water and fast 30 minutes before saliva sample collection. Do not eat, drink, smoke or chew gum.



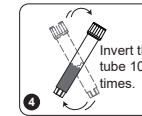
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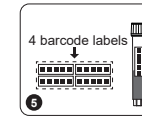
2. Hold the Hold the storage vial in hand and keep it upright, screw the bottom of the storage vial into the saliva collection cup and tighten it. The bottom of the storage vial will be punctured automatically, and the storage liquid in the vial will flow into the saliva collection vial.



3. Keep the collecting vial upright, unscrew the funnel, take out the clean saliva collecting vial cap from the packing box, screw and tighten it on the saliva collecting vial. The vial caps have a choking hazard. Keep out of reach of children.



4. Turn the collecting vial upside down for 10 times to fully mix saliva and preservation solution.



5. Take out a bar code from the packing box and stick it on the saliva collecting vial, then put the collecting vial with bar code and two bar codes into the sample bag for storage, transportation or testing, and the remaining bar code is kept by the user for subsequent information feedback.

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