

Produced by MRC Group

PLEASE CONTACT US



Tel: +86-755-89616773
Fax: +86-755-89616775
E-mail: info@mrctek.com
Zip code: 518122
Official website: www.mantacc.com
Address: No 4, Hejian Road, Shatian Community, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Life Science

Medical

Crime Science

C.D.C. & Environmental

Preservation Transport Medium

Product Background

Preservation Transport Medium, also known as Liquid Preservation Solution, are solutions designed to maintain the viability of bacteria or viruses during transport without allowing their multiplication. They are used to preserve a specimen and minimize bacterial overgrowth from the time of collection to the processing, aiming to maintain the specimen as near its original state as possible. Transport media contain only buffers and salt and do not contain nutritional ingredients such as carbon, nitrogen, or organic growth factors to prevent microbial multiplication.

Product Introduction

Mantacc offers two series of products: Virus Transport Medium and Cell Transport Medium.

The Virus Transport Medium is a protective liquid that houses the virus sample from a swab submerged in the sample tube. It can be used with throat swabs, nasal swabs, or tissue samples from specific areas. The stored samples can be used for subsequent clinical tests such as nucleic acid extraction or purification. This solution is suitable for the sampling, preservation, and transport of nasopharyngeal pathogen samples such as the novel coronavirus, influenza, avian flu, hand-foot-mouth disease, and measles.

The Cell Transport Medium is a universal cell freezing solution. Cell freezing is an essential technique for cell culture, introduction of species, protection, and ensuring the smooth progress of experiments. The basic principle of cell freezing and revival is slow freezing and fast thawing, which has been proven to maintain cell vitality.



Preservation Transport Medium Guide

This guide will help you understand the characteristics, scope of application, and detection items of various types of transport mediums. It will assist you in selecting appropriate transport mediums for different samples to ensure the accuracy of experimental results.

| Category | Sample Type | Sample Subdivision | Routine Project | Sample Type | Preservation Solution Name |
|------------------------|-------------|--------------------|--|---|--|
| Molecular Nucleic Acid | DNA | Chromosome | Teratogenicity Testing | Collection of Body Fluids, Tissue, Pathogenic Microorganisms, Secretions, etc. General Sample | DNA Cell Preservation Solution DNA HPV Cell Preservation Solution HPV Cell Preservation Solution Saline |
| | | Mitochondria | Chronic Progressive External Ophthalmoplegia | | |
| | | Plasmid | Plasmid Transport | | |
| | RNA | Chloroplast | Agronomy, Biology Chloroplast Gene Screening | | |
| | | Microorganism | HPV and other DNA Virus Detection | | |
| | | T RNA, Transport | Breast Cancer | | |
| Cell Morphology | Cell | M RNA, Messenger | Melanoma | Collection of Bone Marrow, Tissue, Body Fluids, etc. General Sample | Sample Preservation Solution Guanidine Salt Inactivated Type Sample Preservation Solution One-step Direct Expansion Type Sample Preservation Solution Non-inactivated Type |
| | | R RNA, Ribosomal | Helicobacter Pylori and other Gene Detection | | |
| | | MIRNA, Micro | Gastric Cancer | | |
| | Cell | Microorganism | COVID-19 and other RNA Virus Detection | | |
| | | Stem Cell | Blood System Diseases | | |
| | | Somatic Cell | Aplastic Anemia | | |
| | Cancer Cell | Mesenchymal Tumors | | | |

Performance Evaluation

DSK-M10-96A 10ml Sample Preservation Solution (Inactivated Red Solution) - DNA Preservation

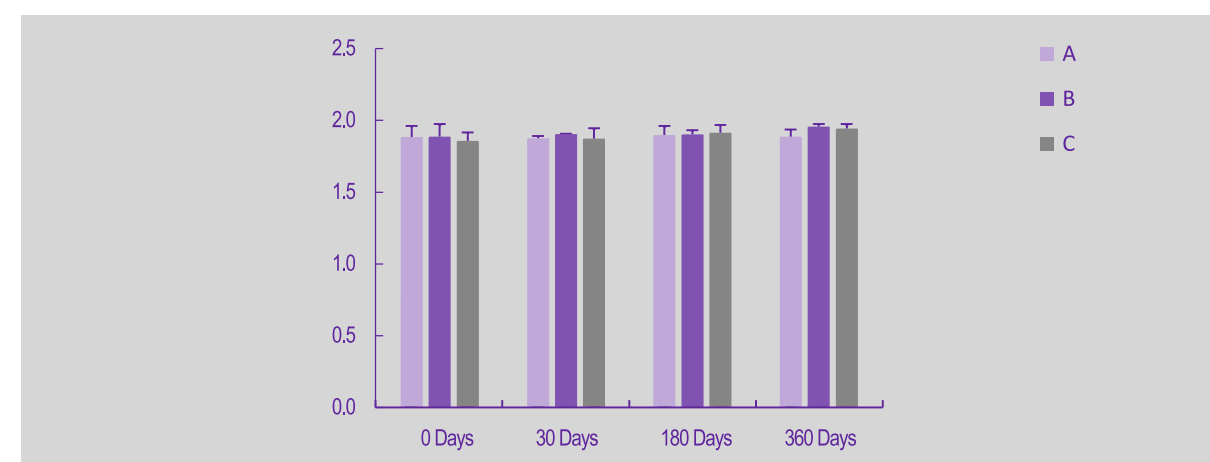


Fig.1 : The relationship between the OD260 / 280 of extracted DNA and the storage time at 2-8 °C

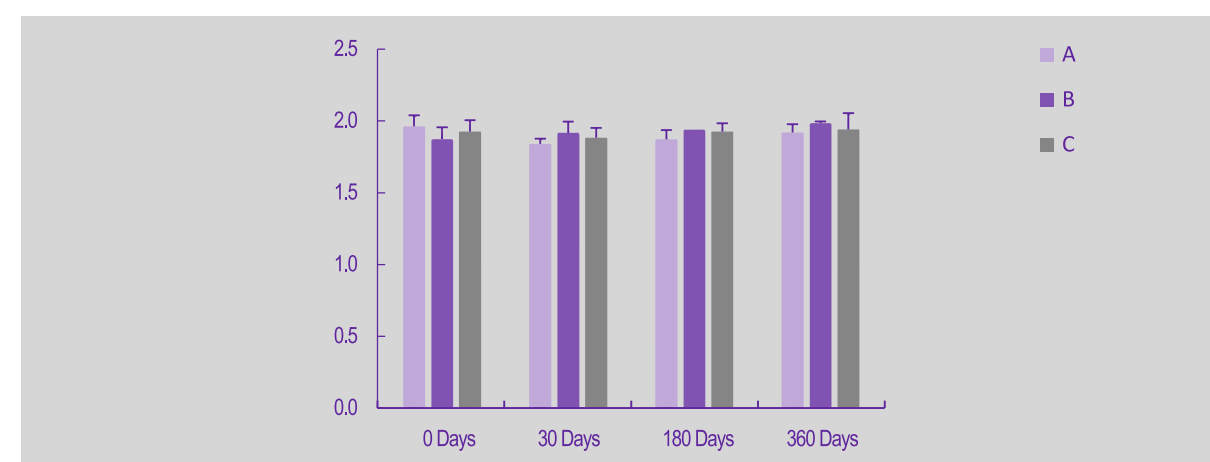


Fig.2 : The relationship between the OD260 / 230 of extracted DNA and the storage time at 2-8 °C

As shown in Fig.1 and Fig.2, three cell samples of adenovirus infected at different concentration gradients were preserved in deactivated preservation solution at 2-8°C, and DNA was extracted at different times. The preservation solution, when kept at 2-8°C, can maintain the adenovirus sample DNA for 360 days, with OD260/280 values all greater than 1.8 and OD260/230 values all greater than 1.8.

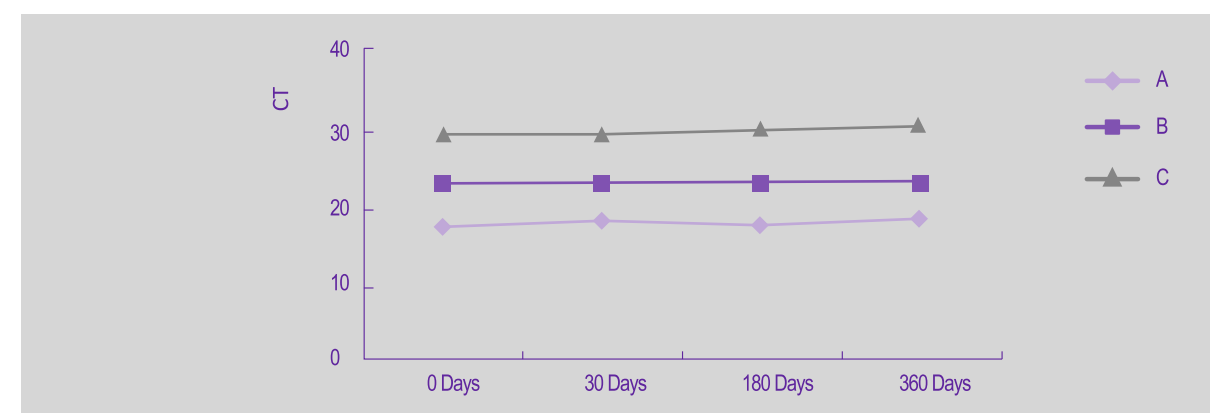


Fig.3 : The curve of Ct value changing with storage time at 2-8 °C.

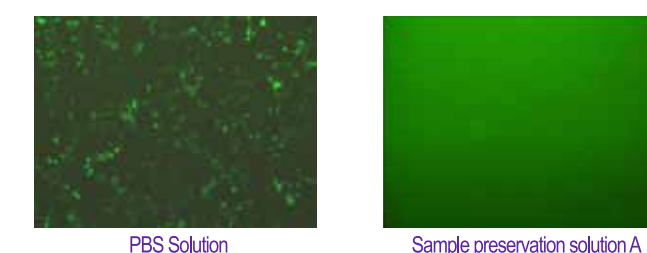
As shown in Fig.3, three cell samples of adenovirus infected at different concentration gradients were preserved in deactivated preservation solution and stored at 2-8°C. Samples were taken immediately after thorough mixing for nucleic acid extraction, followed by PCR experiments. The results show that there is no significant change in Ct value within 360 days when DNA is preserved at 2-8°C in the deactivated preservation solution.

Performance Evaluation

Virus Inactivation Test

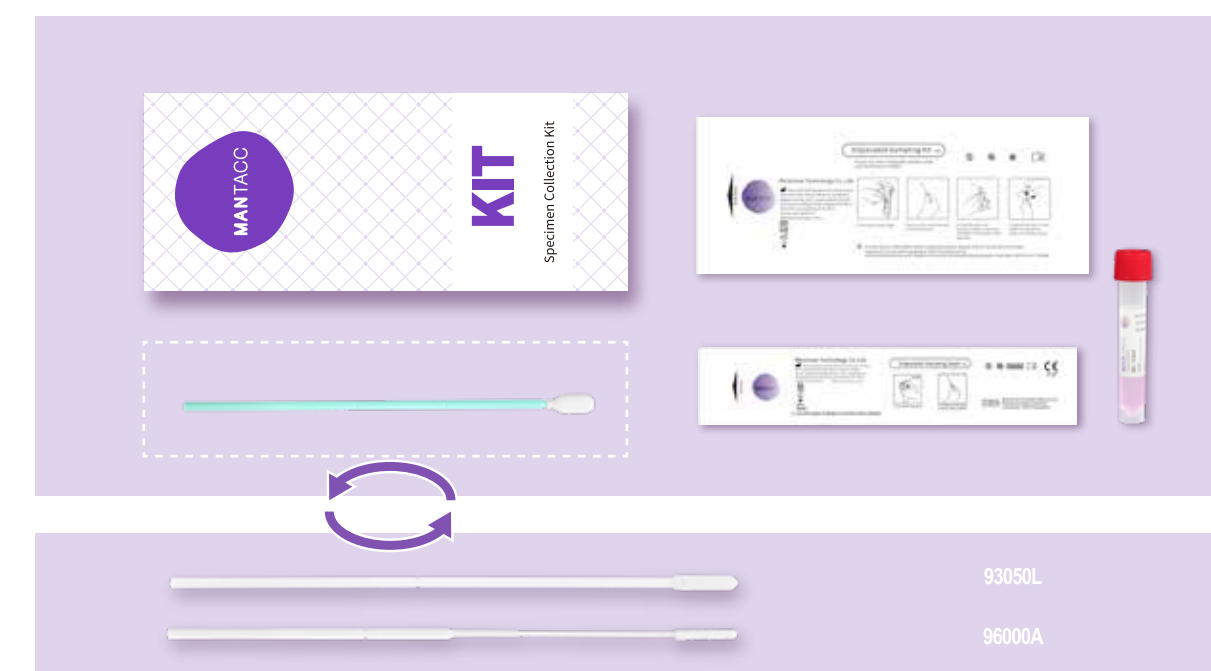
| No. | Sample | Mixing time (virus inactivation time) | Fluorescence Microscope Detection results | Note |
|-----|--------------------------------|---------------------------------------|---|--|
| 1 | PBS Solution | 1 min | Strong fluorescent signal | |
| 2 | Sample preservation solution A | 1 min | No fluorescent signal | Cell death was observed in the 20uL group and normal in the other dose groups. |

Fluorescence microscopy results (0.2uL virus and sample preservation solution mixture was added to HEK293 cells for infection, 44h). after fluorescence detection results):



Conclude: Lentiviral samples were inactivated within 1 min by sending sample preservation solution A. HEK293 cells showed no fluorescence signal. The images shown are representative fluorescence results.

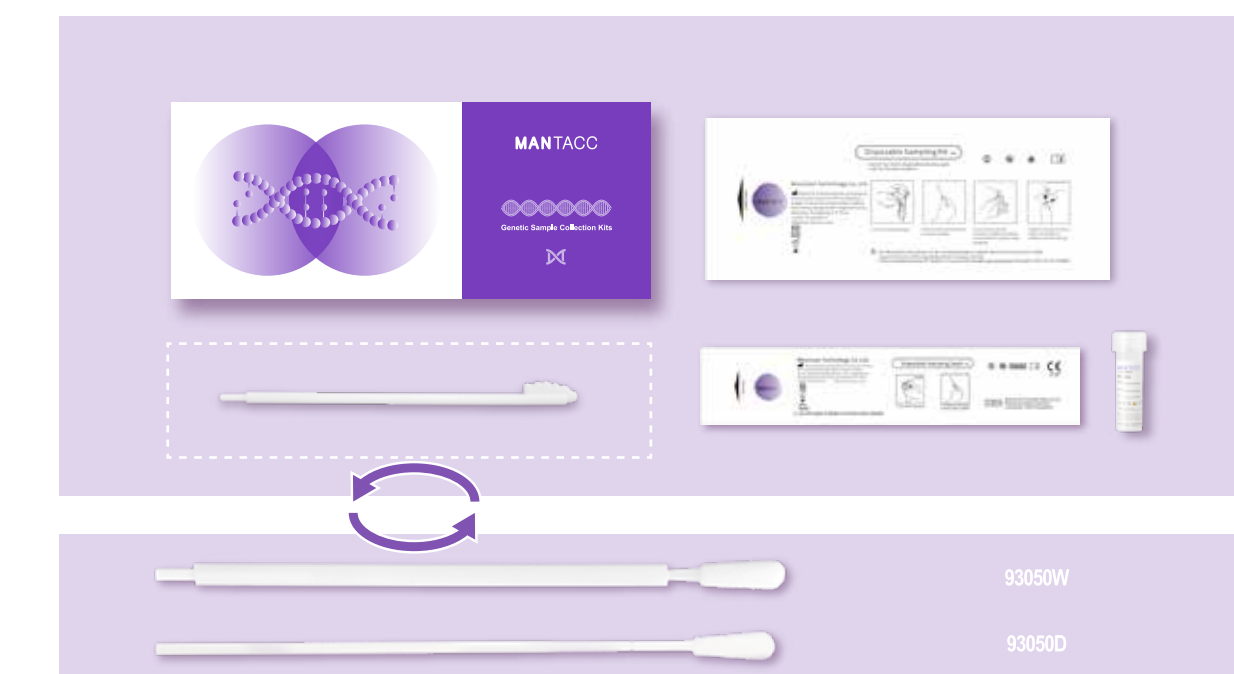
Specimen Collection Kit



93050L

96000A

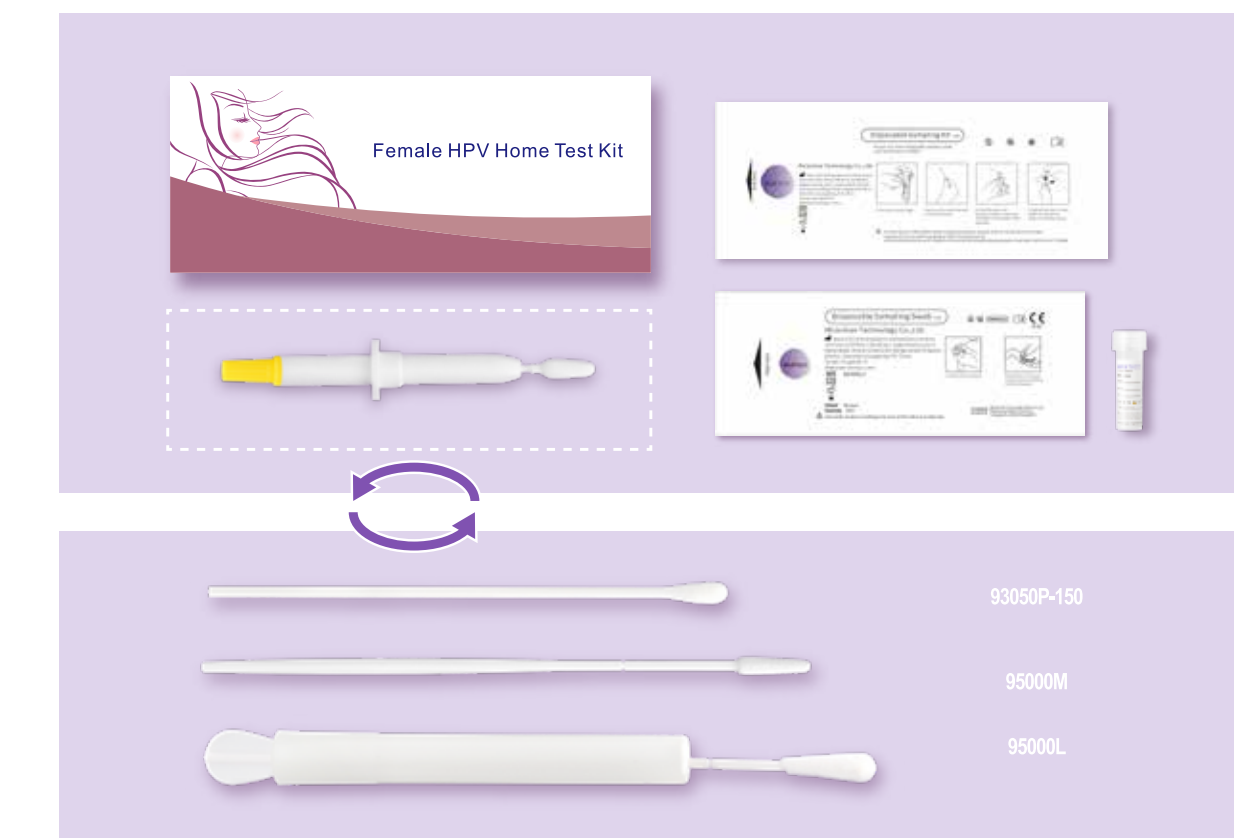
Genetic Sample Collection Kit



93050W

93050D

HPV Sample Collection Kit



93050P-150

95000M

95000L

Culture Transport Medium

Amies Transport Medium

Amies Transport Medium is a common microbiological transport and preservation medium, available in both solid and liquid forms. It is primarily used for the collection, transport, and preservation of bacterial, viral, and other microbial samples. The medium consists of a buffer solution, cellulose, and calcium carbonate. The cellulose serves to absorb the sample, while calcium carbonate provides a buffering effect.

Product Features

Amies is suitable for common microorganism, eg. Shigella, Neisseria, Trichomonas vaginalis, Enterobacter, Haemophilus, Coronavirus, Streptococcus pneumoniae, Streptococcus pyogenes, Salmonella, Brucella abortus, Vibrio cholerae.



| Ordering Guide | | | |
|----------------|-------------------------------------|---------------------------------|------------------------|
| | Type | Model | Description |
| Amies | Gel (with/without activated carbon) | Type II: Amies transport medium | Amies+93050P, blue cap |
| | Liquid | Type II: Amies transport medium | Amies+96000, blue cap |

Cary-Blair Transport Medium

The Cary-Blair Transport Medium helps to maintain the survival and stability of microorganisms, preserving the original characteristics of the samples during transportation for subsequent experimental analysis.

Product Features

Cary-Blair is suitable for enteropathogenic bacteria eg. Salmonella, Shigella, Campylobacter jejuni, and Vibrio cholerae.



| Ordering Guide | | | |
|----------------|-------------------------------------|--------------------------------------|------------------------------|
| | Type | Model | Description |
| Cary-Blair | Gel (with/without activated carbon) | Type I : Cary-Blair transport medium | Cary-Blair+93050P, white cap |
| | Liquid | Type I : Cary-Blair transport medium | Cary-Blair+93050J, green cap |

Stuart Transport Medium

The Stuart Transport Medium is primarily used for the transportation of specimens from suspected Neisseria, Streptococcus, Salmonella, and Shigella, maintaining the stability and growth of microorganisms for subsequent isolation and identification in the laboratory.

Product Features

Stuart is suitable for aerobic bacteria eg. Neisseria, Shigella, Haemophilus influenzae, Streptococcus pneumoniae, Streptococcus pyogenes, Diphtheria and Neisseria gonorrhoeae, Mycoplasma, Chlamydia.



| Ordering Guide | | | |
|----------------|-------------------------------------|------------------------------------|-------------------------|
| | Type | Model | Description |
| Stuart | Gel (with/without activated carbon) | Type III : Stuart transport medium | Stuart+93050P, red cap |
| | Liquid | Type III : Stuart transport medium | Stuart+93050P, pink cap |

Performance Evaluation

| Cary-Blair Performance Test | | | | | |
|-------------------------------------|-------------|------------|-------------|-------------|-------------|
| Quality control strains | Temperature | Time 6 hrs | Time 24 hrs | Time 48 hrs | Time 72 hrs |
| Escherichia coli ATCC 25922 | 2-8°C | 1.55E+02 | 1.98E+02 | 2.34E+02 | 2.71E+02 |
| | 20-25°C | 1.83E+02 | 4.78E+02 | 8.43E+02 | 1.25E+03 |
| Staphylococcus aureus ATCC 25923 | 2-8°C | 1.71E+02 | 1.93E+02 | 2.14E+02 | 2.36E+02 |
| | 20-25°C | 2.44E+02 | 4.19E+02 | 8.79E+02 | 1.14E+03 |
| Pseudomonas aeruginosa CMCC(B)10104 | 2-8°C | 2.64E+02 | 2.73E+02 | 2.91E+02 | 3.04E+02 |
| | 20-25°C | 2.37E+02 | 4.13E+02 | 9.67E+02 | 1.01E+03 |
| Streptococcus pneumoniae ATCC9303 | 2-8°C | 1.47E+02 | 1.84E+02 | 2.31E+02 | 2.83E+02 |
| | 20-25°C | 2.26E+02 | 4.91E+02 | 8.35E+02 | 9.83E+02 |
| Haemophilus influenzae ATCC 10211 | 2-8°C | 1.46E+02 | 1.61E+02 | 2.17E+02 | 2.53E+02 |
| | 20-25°C | 2.53E+02 | 5.07E+02 | 8.82E+02 | 1.05E+03 |
| Haemophilus influenzae ATCC 25285 | 2-8°C | 1.57E+02 | 1.93E+02 | 2.17E+02 | 2.44E+02 |
| | 20-25°C | 2.31E+02 | 5.67E+02 | 9.34E+02 | 9.97E+02 |
| Neisseria gonorrhoeae ATCC 49226 | 2-8°C | 1.72E+02 | 1.93E+02 | 2.24E+02 | 2.49E+02 |
| | 20-25°C | 2.43E+02 | 4.97E+02 | 8.82E+02 | 1.13E+03 |

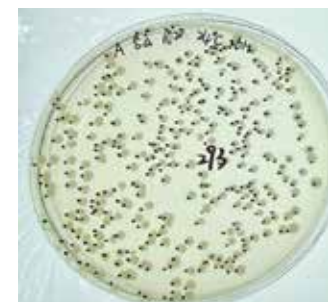
Cary-Blair



The condition of Staphylococcus aureus bacterial count when preserved in Cary-Blair gel medium at a temperature of 24°C for 6 hours.

| Amies Performance Test | | | | | |
|-------------------------------------|-------------|------------|-------------|-------------|-------------|
| Quality control strains | Temperature | Time 6 hrs | Time 24 hrs | Time 48 hrs | Time 72 hrs |
| Escherichia coli ATCC 25922 | 2-8°C | 1.63E+02 | 1.99E+02 | 2.41E+02 | 2.63E+02 |
| | 20-25°C | 2.31E+02 | 4.73E+02 | 9.12E+02 | 1.15E+03 |
| Staphylococcus aureus ATCC 25923 | 2-8°C | 1.64E+02 | 1.80E+02 | 2.05E+02 | 2.10E+02 |
| | 20-25°C | 2.93E+02 | 4.87E+02 | 8.51E+02 | 1.14E+03 |
| Pseudomonas aeruginosa CMCC(B)10104 | 2-8°C | 2.51E+02 | 2.63E+02 | 2.71E+02 | 2.88E+02 |
| | 20-25°C | 2.49E+02 | 4.63E+02 | 8.41E+02 | 1.07E+03 |
| Streptococcus pneumoniae ATCC9303 | 2-8°C | 1.52E+02 | 1.93E+02 | 2.34E+02 | 2.55E+02 |
| | 20-25°C | 2.36E+02 | 4.57E+02 | 8.36E+02 | 9.97E+02 |
| Haemophilus influenzae ATCC 10211 | 2-8°C | 1.57E+02 | 1.63E+02 | 2.24E+02 | 2.63E+02 |
| | 20-25°C | 2.42E+02 | 5.13E+02 | 8.51E+02 | 1.05E+03 |
| Haemophilus influenzae ATCC 25285 | 2-8°C | 1.44E+02 | 1.89E+02 | 2.24E+02 | 2.53E+02 |
| | 20-25°C | 2.25E+02 | 5.32E+02 | 8.97E+02 | 9.80E+02 |
| Neisseria gonorrhoeae ATCC 49226 | 2-8°C | 1.63E+02 | 1.87E+02 | 2.31E+02 | 2.57E+02 |
| | 20-25°C | 2.53E+02 | 5.07E+02 | 8.93E+02 | 1.12E+03 |

Amies



The condition of Staphylococcus aureus bacterial count when preserved in Amies gel medium at a temperature of 24°C for 6 hours.

| Stuart Performance Test | | | | | |
|-------------------------------------|-------------|------------|-------------|-------------|-------------|
| Quality control strains | Temperature | Time 6 hrs | Time 24 hrs | Time 48 hrs | Time 72 hrs |
| Escherichia coli ATCC 25922 | 2-8°C | 1.28E+02 | 2.08E+02 | 2.26E+02 | 2.91E+02 |
| | 20-25°C | 1.72E+02 | 3.27E+02 | 6.49E+02 | 9.71E+02 |
| Staphylococcus aureus ATCC 25923 | 2-8°C | 1.62E+02 | 1.86E+02 | 2.11E+02 | 2.47E+02 |
| | 20-25°C | 1.49E+02 | 2.97E+02 | 5.71E+02 | 9.84E+02 |
| Pseudomonas aeruginosa CMCC(B)10104 | 2-8°C | 2.57E+02 | 2.83E+02 | 3.07E+02 | 3.18E+02 |
| | 20-25°C | 2.23E+02 | 4.39E+02 | 9.67E+02 | 1.17E+03 |
| Streptococcus pneumoniae ATCC9303 | 2-8°C | 1.53E+02 | 1.96E+02 | 2.46E+02 | 2.73E+02 |
| | 20-25°C | 2.17E+02 | 4.57E+02 | 8.24E+02 | 9.85E+02 |
| Haemophilus influenzae ATCC 10211 | 2-8°C | 1.57E+02 | 1.86E+02 | 2.27E+02 | 2.69E+02 |
| | 20-25°C | 2.47E+02 | 5.03E+02 | 8.72E+02 | 1.16E+03 |
| Haemophilus influenzae ATCC 25285 | 2-8°C | 1.73E+02 | 1.89E+02 | 2.37E+02 | 2.59E+02 |
| | 20-25°C | 2.43E+02 | 5.72E+02 | 9.24E+02 | 1.05E+03 |
| Neisseria gonorrhoeae ATCC 49226 | 2-8°C | 1.63E+02 | 2.04E+02 | 2.39E+02 | 2.67E+02 |
| | 20-25°C | 2.57E+02 | 4.82E+02 | 8.83E+02 | 1.27E+03 |

Stuart



The condition of Escherichia coli bacterial count when preserved in Stuart gel medium at a temperature of 4°C for 6 hours.

Saliva Collection Kit

Product Background

Saliva Collection Kit is used for non-invasive biological sample collection for various tests. They're used in genetic testing, as saliva contains DNA. They help in disease detection, including oral cancers and systemic diseases. Saliva Collection Kit is also used in drug testing for detecting presence of drugs or alcohol, and in hormone testing to diagnose conditions related to hormonal imbalances.

Product Features

- ① Safe: Prevents accidental ingestion or spilling of the storage liquid and avoids contamination of the sample
- ② Fast: Convenient sample collection regardless of site and tool restrictions
- ③ Reassuring: Individually packaging and easy-to-use design are important for those who may be anxious about self-collection



Product Description

Integrated Saliva Collection Kit

Mantacc integrated saliva collection kit comprises a unified, streamlined collection funnel tube, a 5ml preservation solution tube, and a collection tube cap. Its integrated design simplifies the sampling process and eliminates the risk of inadvertent consumption of the storage liquid. By avoiding direct contact with the mouth or hands during the collection, it ensures the storage liquid remains uncontaminated and spill-free.



Split Saliva Collection Kit

The Mantacc split saliva collection kit consists of a detachable rectangular collection funnel tube, a 5ml preservation solution tube, and a collection tube cap. The split design makes the sampling easy and can prevent accidental ingestion of the storage liquid. It also avoids direct contact between the storage liquid and the mouth or hands during the collection process, and prevents the storage liquid from spilling. Safe to use and more reassuring to self-collect.



Split Saliva Collection Kit

The Mantacc split saliva collection kit consists of a detachable collection funnel tube, a 5ml preservation solution tube, and a collection tube cap. The split design makes the sampling easy and can prevent accidental ingestion of the storage liquid. It also avoids direct contact between the storage liquid and the mouth or hands during the collection process, and prevents the storage liquid from spilling. Safe to use and more reassuring to self-collect.

Performance Evaluation

Saliva Sample Preservation Solution

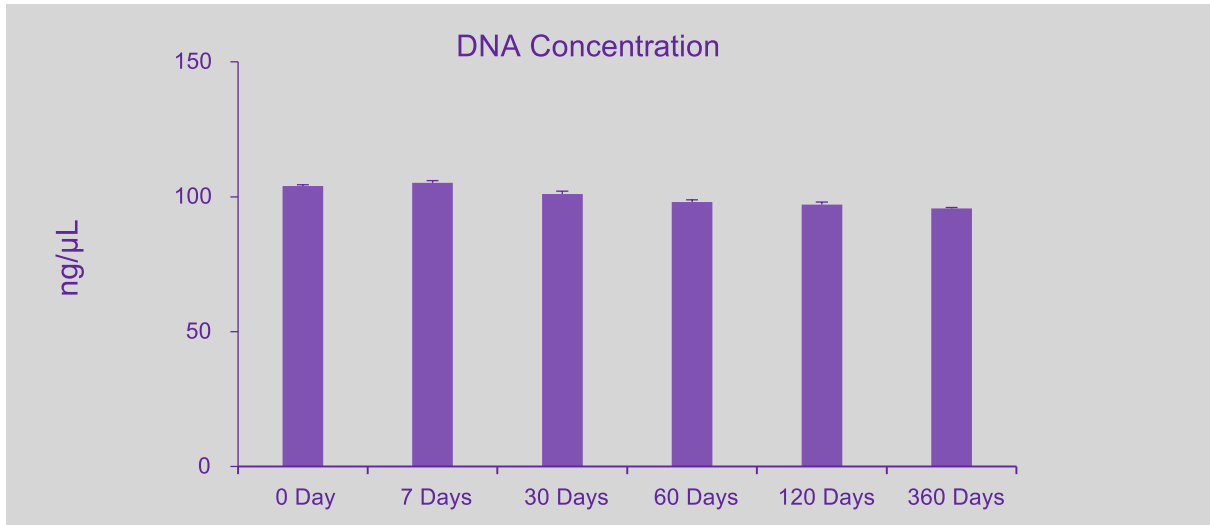


Figure 1: Using our Saliva Collection Kit, the sample is collected and added to the preservation solution. After thorough mixing, it is stored at 2-8°C. DNA is extracted at various times. The concentration is measured using Nanodrop. The preservation solution can store the DNA from the saliva sample at 2-8°C for at least 360 days.

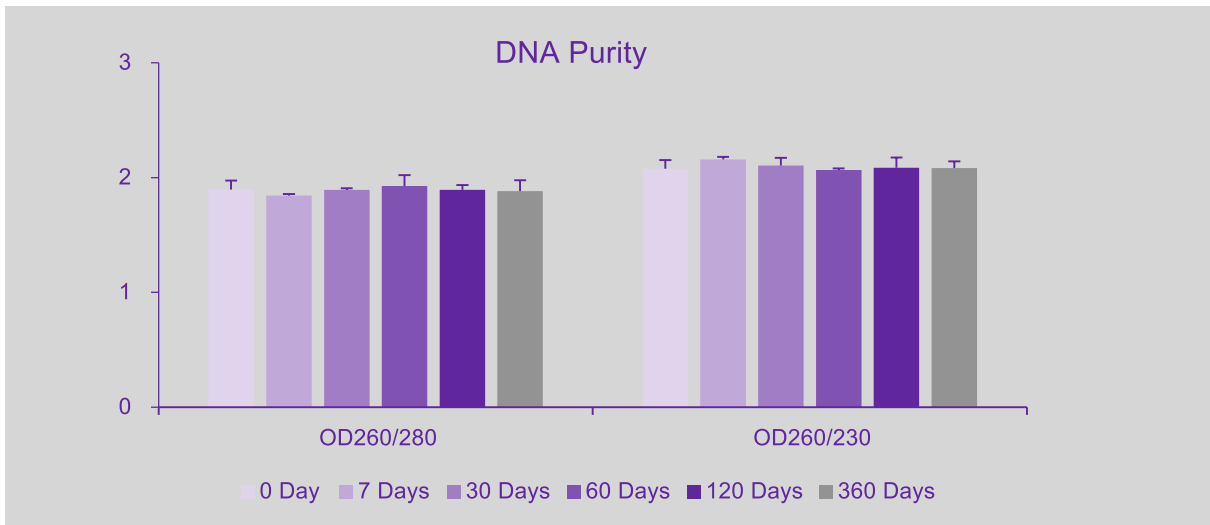


Figure 2: Using our Saliva Collection Kit, the sample is collected and added to the preservation solution. After thorough mixing, it is stored at 2-8°C. DNA is extracted at various time intervals. The preservation solution can store the DNA from the saliva sample at 2-8°C for at least 360 days. The minimum A260/280 value is greater than 1.8, and the minimum A260/230 value is greater than 2.0.

Ordering Guide

| Product Model | Packing Method | Gross Weight | Net Weight | Pallet | Note |
|---------------|---|--------------|------------|-------------------|-----------------------|
| TY180 | 1 set/box, 170 boxes/carton 47*30*47cm | 7kg | 6.5kg | 24 cartons/pallet | Plastic box packaging |
| TY003 | 1 set/box, 170 boxes/carton 47*30*47cm | 7kg | 6.5kg | 24 cartons/pallet | Plastic box packaging |
| TY001 | 1 set/box, 210 boxes/carton 47*30*47cm | 6.5kg | 5.7kg | 24 cartons/pallet | Plastic box packaging |

Technical Data Environmental Sampling Kit



Intended Use

The Environmental Sampling Kit is intended to use in surface sampling procedures in the food, beverage, pharmaceutical and cosmetic industries.

Composition

The environmental sample collection bottle mainly consists of a collection bottle and a preservation solution.

Scope of application

Suitable for wipe sampling methods in food and beverage production environments, as well as for the collection, transportation and storage of samples.

Preservation Tube Type

| Model Specification | Style | Solution bottle outside diameter | Outer diameter of bottle cap | Product length | Cotton swab head length | Cotton swab head width | Capacity | Content |
|---------------------|---|----------------------------------|------------------------------|----------------|-------------------------|------------------------|----------|---------|
| BTL | Flap telescopic rod cotton swab | 22±0.5 | 21.4±0.2 | 100.5±2.0 | 21.0±2.0 | 11.8±1.0 | 22.0ml | 10.0ml |
| BCL | Flat cover telescopic rod cotton swab | 22±0.5 | 21.5±0.2 | 95.5±2.0 | 21.0±2.0 | 11.8±1.0 | 22.0ml | 10.0ml |
| BTS | Flap non-telescopic rod cotton swab | 22±0.5 | 21.4±0.2 | 100.5±2.0 | 21.0±2.0 | 9.0±1.0 | 22.0ml | 10.0ml |
| BCS | Flat cover non-telescopic rod cotton swab | 22±0.5 | 21.5±0.2 | 95.5±2.0 | 21.0±2.0 | 9.0±1.0 | 22.0ml | 10.0ml |

Preservation Solution Type

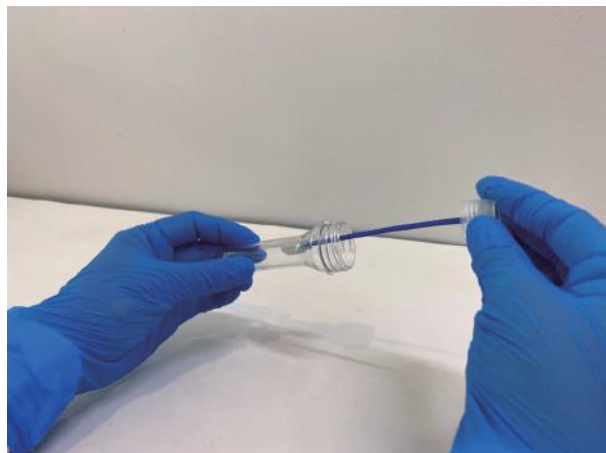
| No. | Reservation solution | Preservation liquid name | pH | Use |
|-----|----------------------|---|---------|---|
| 1 | NS | Physiological Saline | 6.1±0.5 | Environmental smear, sampling |
| 2 | PBS | Peptone Buffered Solution | 7.4±0.5 | Environmental smear, sampling |
| 3 | BPW | Buffered Peptone Water | 7.1±0.5 | Environmental smear, sampling |
| 4 | LTB | Lethen Broth | 7.0±0.5 | Used for bacterial enrichment culture in cosmetics or other substances (containing quaternary ammonium compounds or cationic surfactants) |
| 5 | LST | Lauryl Sulfate Tryptose Broth | 7.0±0.5 | Environmental smear, sampling |
| 6 | MRD | Tryptone Physiology Solution | 6.9±0.5 | Repair of hypotrophic bacteria and damaged bacteria |
| 7 | NB | Nutrient Broth | 7.2±0.5 | For bacterial growth culture |
| 8 | NSS | Physiological Saline(containing neutralizer) | 5.8±0.5 | Apply and sample the environment after disinfection |
| 9 | PBSS | Peptone Buffered Solution(containing neutralizer) | 7.3±0.5 | Apply and sample the environment after disinfection |
| 10 | NBS | Nutrient Broth(containing neutralizer) | 7.3±0.5 | Used for bacterial enrichment culture after disinfection |
| 11 | LTBS | Lethen Broth(containing neutralizer) | 7.0±0.5 | Used for bacterial enrichment culture in cosmetics or other substances (containing quaternary ammonium compounds or cationic surfactants) |
| 12 | D/E | D/E Neutralizing Broth | 7.9±0.5 | For sample enrichment culture treated with preservatives or disinfectants |

Preservation Liquid Effect Test

| index | Quality control strain and number | Standard value | Add the number of colonies before quality control | Add the number of colonies after quality control | Rate of change | Characteristic reaction |
|-------------|--------------------------------------|--|---|--|----------------|--|
| growth rate | Escherichia coli TCC25922 | The change in bacterial count before and after 45 minutes shall not exceed ± 50% | 167/174/173 | 174/183/163 | 5% | Regular colonies that appear yellowish or white, round, raised, and moist on the TSA |
| | Staphylococcus aureus ATCC6538 | | 157/144/163 | 163/137/187 | 8% | Yellow, circular, raised, and moist colonies appear on TSA |
| | Candida albicans ATCC10231 | | 197/134/153 | 197/134/153 | 6% | White, circular, raised, and moist regular colonies appear on SDA |
| | Pseudomonas aeruginosa CMCC (B)10104 | | 127/174/133 | 127/174/133 | 7% | Green, irregularly shaped, flat, and moist colonies appear on TSA |

Conclusion: The product contains Escherichia coli, Staphylococcus aureus, Candida albicans, and Pseudomonas aeruginosa. After mixing with PBS at 25 °C, the variation in colony count at 0 min and 45 min is less than 50%, which meets the requirements of the standard (GB 4789.28-2013).

Environmental Diagnostics



Product Background

Environmental monitoring products are important tools in modern industries such as food, beverage, pharmaceutical, and cosmetic industries. During the production process, they help ensure the cleanliness of the environment and the quality of the products, which is crucial for preventing microbial contamination. Mantacc's sampling kit is a typical environmental swab sampling system that combines the necessary swabs and diluents into one device, making the sampling process more convenient and flexible. Its special design allows for sampling of deep areas, which is particularly useful for situations that require testing of deep environmental samples. Widely used fields include surface sampling procedures in industries such as food, beverage, pharmaceutical, and cosmetic industries.

Applicator



Product Description

Antiseptic skin applicators use a sterile solution of 2% Chlorhexidine Gluconate (CHG) and 70% Isopropyl Alcohol. They're used for preoperative skin preparation, promoting sterility and reducing the risk of infection. These applicators come in various sizes to accommodate different clinical needs and surface areas. The single-use, one-step design helps standardize practice across care settings and reduce variability. The combination of CHG and alcohol is proven to reduce contamination risk, providing a trusted option for patient care.

Product Performance

| Item | Test Result | | | | |
|--|---|--------|--------|--------|-------|
| | | 0h | 1h | 6h | 24h |
| Antibacterial activity | Chlorhexidine | 99.9% | 99.9% | 99.9% | 99.9% |
| | Absolute ethyl alcohol | 99.9% | 99.9% | 99.9% | 99.9% |
| | Isopropyl alcohol | 99.9% | 99.9% | 99.9% | 99.9% |
| Solution composition and concentration | Chlorhexidine | 74.0% | / | / | / |
| | Absolute ethyl alcohol | 99.7mm | / | / | / |
| | Isopropyl alcohol | 99.4mm | / | / | / |
| Effective sterilization area | | 3ml | 10.5ml | 26ml | / |
| | Chlorhexidine | 858.0 | 3011.6 | 7447.4 | / |
| | Absolute ethyl alcohol | 734.0 | 2583.7 | 6378.5 | / |
| | Isopropyl alcohol | 715.0 | 2524.0 | 6220.5 | / |
| Harmful substance | Neither latex nor DEHP was detected by solid test or organic extraction | | | | |

Product Features

- ① Durable antibacterial: Washbet offers lasting antibacterial action for 48 hours.
- ② Medical sponge: Soft, 100PPI polyurethane sponge releases disinfectant quickly, ideal for pre-surgery disinfection.
- ③ Individual packaging: Each applicator is vacuum-packed to avoid contamination.
- ④ Safe and reliable, reducing medication errors and cross-contamination risks.
- ⑤ Easy to use, allowing healthcare staff to concentrate on patient care.
- ⑥ Precise application minimizes drug waste.



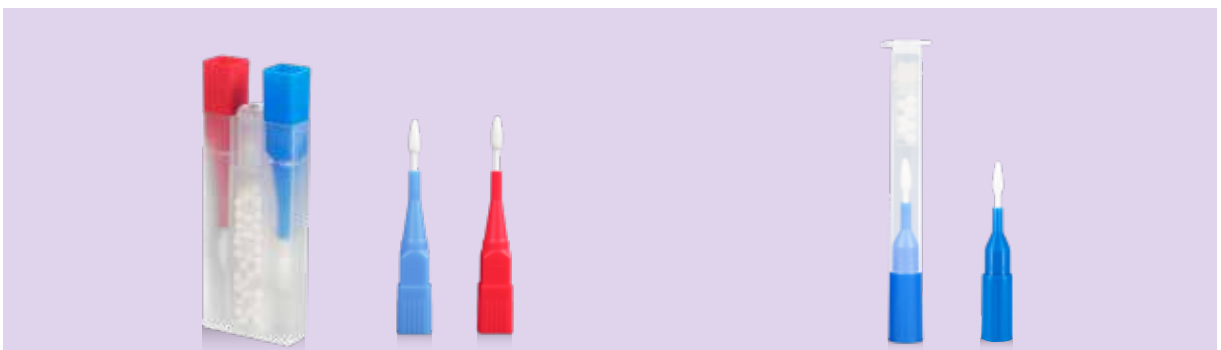
Ordering Guide

| Product Model | Liquid Volume | Packing Method | Gross Weight | Net Weight | Pallet |
|----------------|---------------|------------------------|--------------|------------|-----------------|
| MCA-260 | 26ml | 50 pcs/box 47×30×47cm | 4.6kg | 4.1kg | 24 boxes/pallet |
| MCA-105 | 10.5ml | 100 pcs/box 47×30×47cm | 5.8kg | 5.3kg | 24 boxes/pallet |
| MCA-003 | 3ml | 100 pcs/box 46×31×27cm | 3kg | 2.5kg | 35 boxes/pallet |

Forensic Sample Collection Kit







Specially developed for blood spot and sperm spot extraction



97000D

97000S

-  Portable: Combines a swab, extraction solution, desiccant, and storage box in one.
-  Fast: All you need to do for sampling is take out the swab, dip it in the extraction solution, wipe the bloodstain, and seal it.
-  Economic: The entire sampling process does not require multiple people to cooperate, it can be completed by one person.
-  Reliable: No need to wait for natural drying, greatly reducing the possibility of DNA contamination.

Performance Evaluation

Forensic Sample Preservation Solution

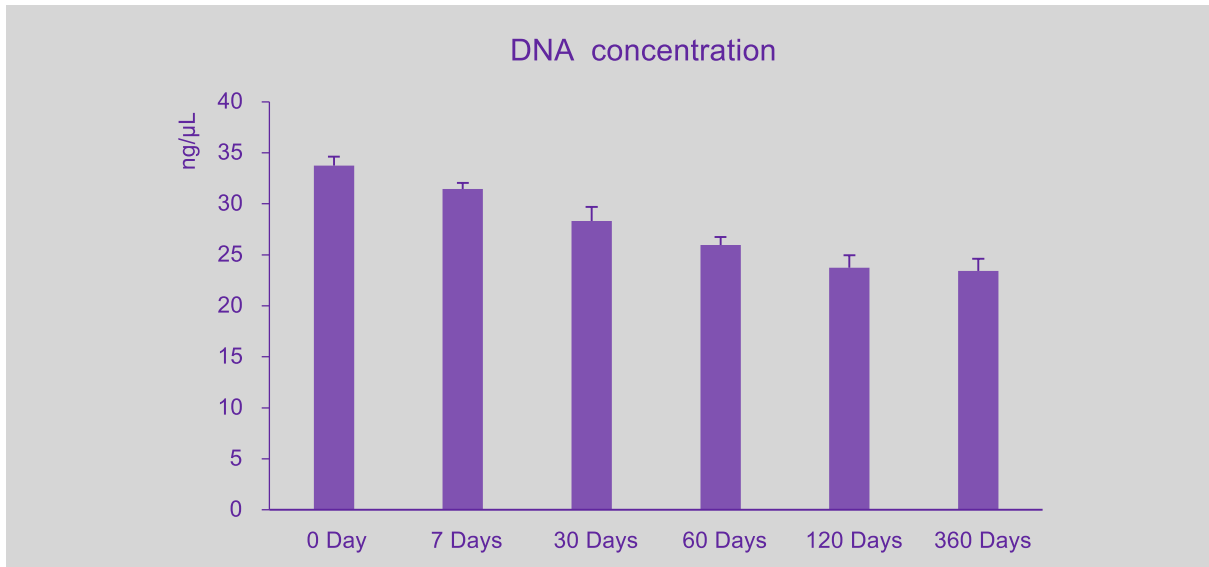


Figure 1: After obtaining the sample with a forensic swab, it is placed in a preservation solution and mixed well, then stored at 2-8°C. DNA is extracted at various time intervals. The concentration is measured using Nanodrop. The preservation solution can keep the swab sample's DNA at 2-8°C for at least 360 days.

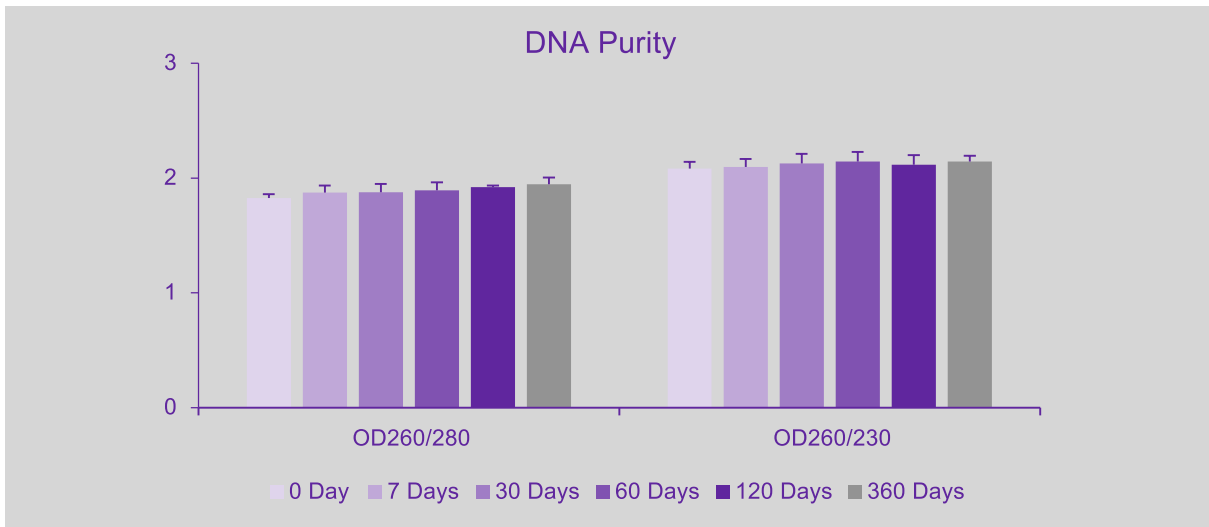


Figure 2: After sampling with a judicial swab, it is placed in a preservation solution and mixed well, then stored at 2-8°C. DNA is extracted at various time intervals. The preservation solution can maintain the DNA of the swab sample at 2-8°C for at least 360 days. The minimum value for A260/280 is greater than 1.8, and the minimum value for A260/230 is greater than 2.0.

Ordering Guide

| Product Model | Packing Method | Box Specification | Gross Weight | Net Weight | Pallet |
|---------------|---|-------------------|--------------|------------|-----------------|
| 97000S | 10 sets/box 100 boxes/carton 1000 sets/carton | 46*31*27cm 10.3kg | 10.3kg | 9.8kg | 35 boxes/pallet |
| 97000D | 5 sets/box 100 boxes/carton 500 sets/carton | 47*30*47cm 17.2kg | 17.2kg | 16.7kg | 24 boxes/pallet |

Disposable stool sample collection kit



Product Description

The Mantacc Disposable stool sample collection kit is mainly used for specimen collection and pretreatment before routine fecal, occult blood, microbiological, and rotavirus tests. The product consists of a preservation solution, a dissolution bottle, a sampling component, and a dilution bottle.

Product Features

- ① Scientific product design that reduces pollution to people and the environment.
- ② Integrated sealed sample processing that simplifies operation.
- ③ Safe and hygienic use that improves sample processing quality.

Performance Evaluation

Results of microbial (DNA) extraction quantity detection

Table 1: DNA concentration detection results of fecal samples saved in a certain well-known brand preservation solution

| Storage Time | Group 1 | Group 2 | Average DNA Concentration (ng/μL) | Group 1 | Group 2 | Group 1 | Group 2 |
|--------------|---------------------------|---------------------------|-----------------------------------|---|---|---|---|
| | DNA Concentration (ng/μL) | DNA Concentration (ng/μL) | | The Ratio of Nucleic Acid and Protein Concentration 260/280 | The Ratio of Nucleic Acid and Protein Concentration 260/280 | The Ratio of Nucleic Acid and Organic Solvent Concentration 260/230 | The Ratio of Nucleic Acid and Organic Solvent Concentration 260/230 |
| 1h | 1139.3 | 1047.2 | 1093.25 | 1.99 | 1.98 | 3.67 | 4.05 |
| 2h | 976.5 | 883.1 | 929.8 | 2.01 | 2.01 | 2.85 | 4.21 |
| 12h | 439.1 | 434.8 | 436.95 | 1.95 | 1.99 | 3.98 | 4.01 |
| 24h | 286.9 | 256.1 | 271.5 | 1.99 | 1.84 | 3.01 | 3.97 |
| 48h | 219.4 | 193.1 | 206.25 | 1.81 | 1.8 | 3.34 | 4.23 |

Table 2: DNA concentration detection results of fecal samples saved in Mantacc preservation solution

| Storage Time | Group 1 | Group 2 | Average DNA Concentration (ng/μL) | Group 1 | Group 2 | Group 1 | Group 2 |
|--------------|---------------------------|---------------------------|-----------------------------------|---|---|---|---|
| | DNA Concentration (ng/μL) | DNA Concentration (ng/μL) | | The Ratio of Nucleic Acid and Protein Concentration 260/280 | The Ratio of Nucleic Acid and Protein Concentration 260/280 | The Ratio of Nucleic Acid and Organic Solvent Concentration 260/230 | The Ratio of Nucleic Acid and Organic Solvent Concentration 260/230 |
| 1h | 1030.2 | 1128.3 | 1079.25 | 1.96 | 2.01 | 4.25 | 4.14 |
| 2h | 982.4 | 893.4 | 937.9 | 1.89 | 1.93 | 3.09 | 3.96 |
| 12h | 348.5 | 401.2 | 374.85 | 1.94 | 1.97 | 3.19 | 4.93 |
| 24h | 253.2 | 234.2 | 243.7 | 1.86 | 1.81 | 4.02 | 4.31 |
| 48h | 208.3 | 185.3 | 196.8 | 1.94 | 1.86 | 3.97 | 4.28 |

Table 3: Analysis of variance results of DNA concentration of fecal samples saved in a certain well-known brand and Mantacc preservation solution

| Source of Variation | SS | df | MS | F | P-value | F crit |
|---------------------|-------------|----|----------|-------|---------|--------|
| Between groups | 1107.75625 | 1 | 1107.756 | 0.007 | 0.936 | 5.318 |
| Within groups | 1319283.38 | 8 | 164910.4 | | | |
| Total | 1320391.136 | 9 | | | | |

The DNA concentration of fecal samples saved in a certain well-known brand and Mantacc preservation solution decreased with time, and the DNA concentration of fecal samples saved in the certain well-known brand preservation solution was 206.25ng/μL and that of Mantacc preservation solution was 196.8ng/μL after 48 hours. It can be seen from Table 3 that $F=0.007 < F_{crit}=5.318$, indicating no significant difference between the two.

Conclusion

The results show no significant difference between Mantacc preservation solution and a certain well-known brand's product, and the results of detection are consistent.

MANTACC[®]
Sub-brand of MRC Group

MANTACC

Applicator



Life Science



Medical



Crime Science



C.D.C. &
Environmental