



No
Refrigeration
Required
Normal Room
Temperature
Preservation

Microbial Preservation Plate

Under normal temperature and pressure
**Our record preservation time
is 5 years**

*Preservation time varies depending on sample type.

Preserve
microbial strains
ALIVE!



- **Space saving !**
- **Reduces contamination !**
- **Easy to transport and distribute !**
- **Can be used directly for PCR, etc. !**

Features:

Microbial strains such as *E.coli* and yeast can be dry-preserved on a paper chip coated with a preservation agent.

Samples can be sealed individually with an accessory protection seal to prevent contamination and inactivation.

This enables compact and efficient preservation at normal room temperature - it is no longer necessary to use deep freeze or dry ice for transportation.

Note : When handling the specific pathogens, please act in accordance with the applicable laws and regulations in your county.

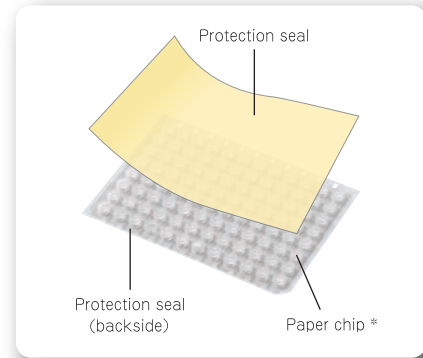


**Preservable in file folders,
saving you storage space!**

Line up

96well

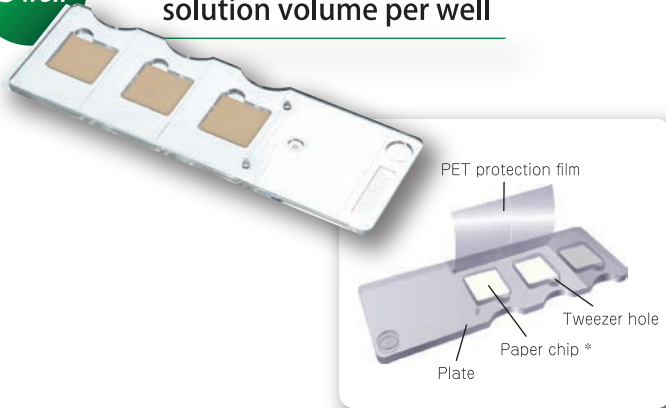
To the level 5 μL of solution volume per well



Cat. No.	Item	Unit
176-531S	Microbial preservation plate for Bacteria, 96well Sterilized	5 plates / bag
176-551S	Microbial preservation plate for Fungi, 96well Sterilized	5 plates / bag

3well

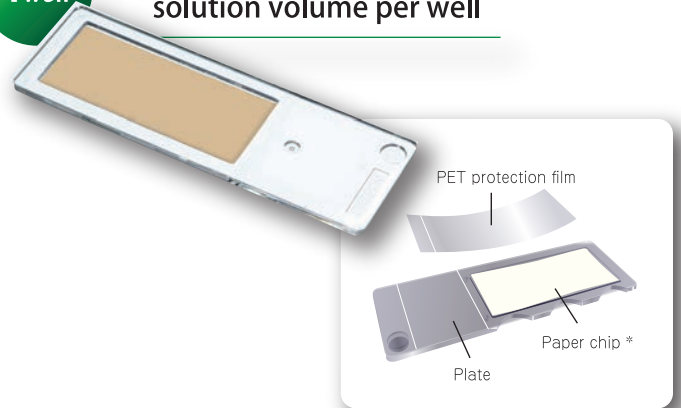
To the level 50 μL of solution volume per well



Cat. No.	Item	Unit
176-331S	Microbial preservation plate for Bacteria, 3well Sterilized	5 plates / unit
176-351S	Microbial preservation plate for Fungi, 3well Sterilized	5 plates / unit

1well

To the level 200 μL of solution volume per well



Cat. No.	Item	Unit
176-231S	Microbial preservation plate for Bacteria, 1well Sterilized	5 plates / unit
176-251S	Microbial preservation plate for Fungi, 1well Sterilized	5 plates / unit

* Protective agent is spread on paper chip and it may appear as dot pattern but it does not affect the qualities.

Q & A

Q. Correlationship between preservation time and storage temperature?

A. Please store at the lower temperature for longer preservation. Some samples can be stored at the normal temperature if it is for short period. Please see our lab data at the back page for your reference.

Q. What is the shelf life of the products before unsealing and use?

A. 1 year after the manufacturing date.

Q. Can I store the unsealed product ?

A. Please do not store the unsealed product without using it. Sterile condition is lost once it is unsealed. Please unseal the products in a clean bench or a safety cabinet just before the use.

Q. Is it better to store the plates at -80°C rather than -20°C ?

A. Please avoid storing the products at lower than -20°C . The protection seal may not function under the temperature lower than -20°C .

Q. What is the recommended method for storing plates ?

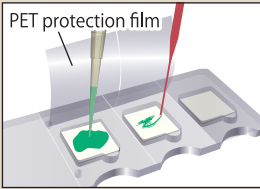
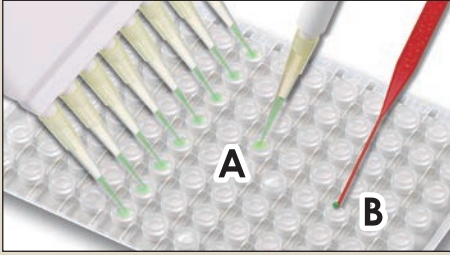
A. Bundle 2 plates with a rubber band so that protection seals face to each other and place it in a ziplock bag. This prevents the protection seal from rubbing and getting damaged by another plate.

Preservation Method

① Let the paper chip absorb a sample.

A: For a liquid sample

B: For a sample from agar



* 3well type flips the PET protection film and then adsorb a liquid sample.

② Dry the sample

(Reduced pressure drying is recommended.)

【Recommended dry time】

• 96well...60 minutes or more

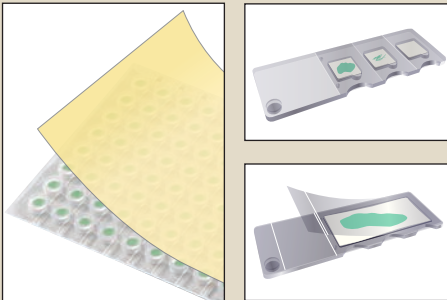
• 1/3well...90 minutes or more

* Insufficient drying may result in faulty performance.

③ Seal the plate with the protection seal, PET protection film and store it in room temperature.

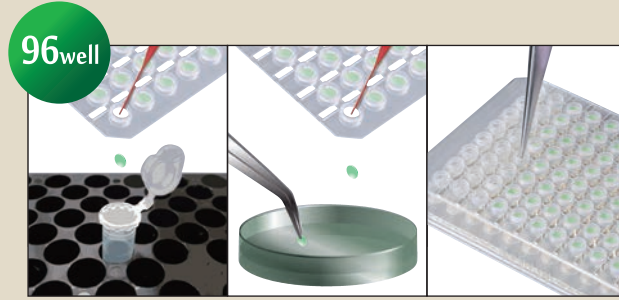
* Make sure that the seal is tightly applied.

Loose sealing may cause contamination.

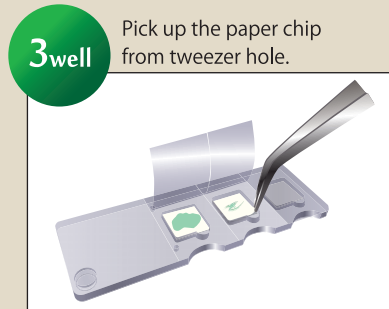


Recovery Method

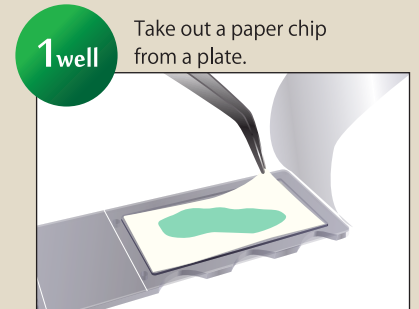
① Peel off the protection seal, PET protection film and place the paper chip into a container.



Push the paper chips by tweezers etc.



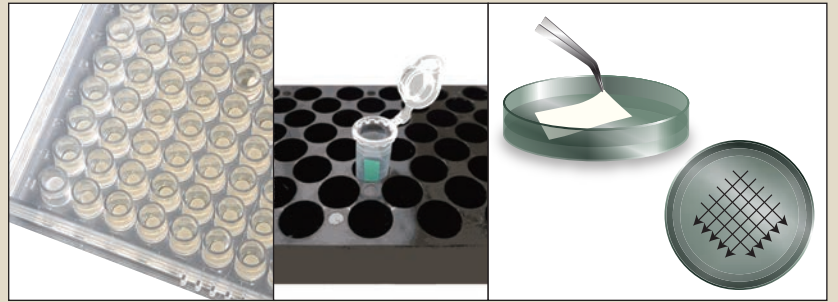
3well Pick up the paper chip from tweezer hole.



1well Take out a paper chip from a plate.

② Put the solution into the container and stir.

In the case of agar, rub the paper chip onto agar.



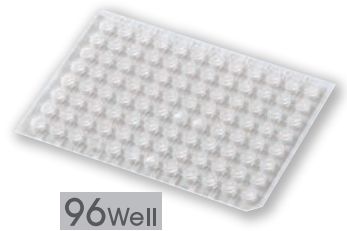
Note : When handling the specific pathogens, please act in accordance with the applicable laws and regulations in your county.

For preservation of nucleic acid (DNA, RNA) or blood samples....

Preservation Plate (PVP)

* Nylon paper chip type

* Cellulose paper chip type



Preservation Plate has been developed from the study result of MEXT's Intellectual Cluster Formation Project <Tokushima Region Noji group (The University of Tokushima)>. This project is supported by METI's New Cooperation Measure Subsidy.

● Our in-house verification experiments have been implemented in aerobic condition only. For preservation of anaerobic bacteria, please conduct pretest in advance.

● Recommended dry time

(For ambient condition of 23°C, Humidity 50%)

[96 well] 60 minutes or more

[1/3 well] 90 minutes or more

● When handling certain pathogenic samples, please handle it in compliance with pertinent laws.

● Do not use Preservation Plate for other purpose than study.

● Wear gloves and a mask when you operate.

● Preservation Plate is disposable. Do not reuse.

● Do not autoclave.

● Store Preservation Plate avoiding high temperature and humidity after unsealing.

● Please avoid light, dusts, high humidity for sample storage space.

● Preservation time may vary depending on purity and/or storage condition of a sample.

● Conduct half-life test to grasp preservation time.

[Half-life : $t(1/2) = \ln 2 / \{\ln(100) - \ln(\text{Survival rate after a month})\}$]



Precautions

