WATSON BIO LAB —— User Instruction

Microbial preservation plate (for general bacteria,yeast)

Microbial strain such as colon bacilli, yeasts can be preserved in a small space.

Product name	Microbial preservation plate
Cat. No.	176-531S、176-551S
Plate dimension	80 ㎜ ×115 ㎜ ×1 ㎜
Sample cell	96 sample cells / plate
Preservation temperature	25℃≦ (Freezing is recommended for long period preservation.)
Manufacturing date	Mentioned on the package

* Read this user instruction carefully before use, and keep it reachable.
* This product applies a patent of national university corporate Tokushima University.
  Contact below for inquiries pertinent to the patent.
  University of Tokushima IP office
  Address: Minami-josanjima 2-1, Tokushima 770-8506, Japan. TEL: +81-88-656-9817

Something Different.
WATSON BIO LAB MADE IN JAPAN SINCE 1988
https://watsonbiolab.com

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E-mail: tcr@watson.co.jp
Manufacturer: FUKAEKASEI CO., LTD.

Precautions

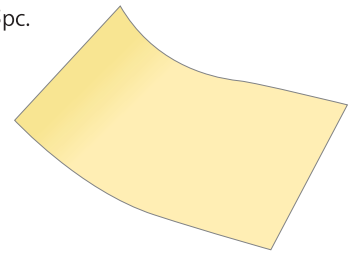
- **Our in-house verification experiments have been implemented in aerobic condition only. For preservation of anaerobic bacteria, please conduct pretest in advance.**
- **Recommended dry time**
  (For ambient condition of 23℃, Humidity 50%)

  [96 well] 60 minutes or more
  [1・3 well] 90 minutes or more
- **When handling certain pathogenic samples, please handle it in compliance with partinent 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.
- Concduct half-life test to grasp preservation time.
  [Half-life：t(1/2)=ln2/{ln(100)-ln(Survival rate after a month)}]

Set contents

■ Microbial preservation plate 96well・・・5pc.

■ Protection seal・・・5pc.



■ User Instruction・・・1pc.

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 (https://www.watsonbiolab.com/pdf/livingsituation_e.pdf) 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℃ rather than -20℃ ?

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

Q. What is the recommended method for storing plates ?

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

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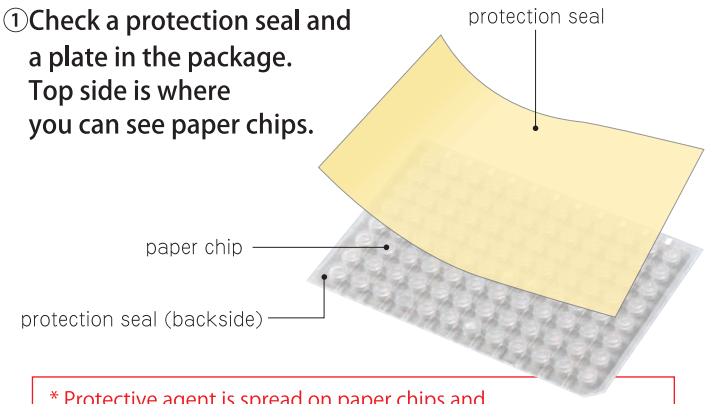
Preservation of Samples

①Check a protection seal and a plate in the package. Top side is where you can see paper chips.

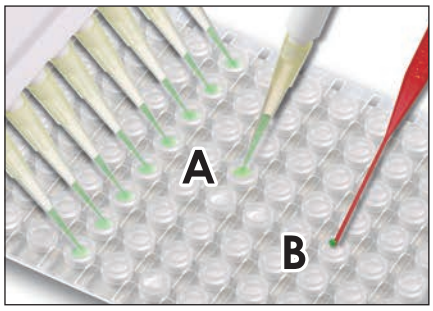


* Protective agent is spread on paper chips and it may appear as dot pattern but it does not affect the qualities.

②Get your sample absorbed into paper chips.

A:For a liquid sample
Up to max. 5 μL can be pipetted.

B:For a sample from agar
Pick microbial in colony from agar and spread on a paper chip.

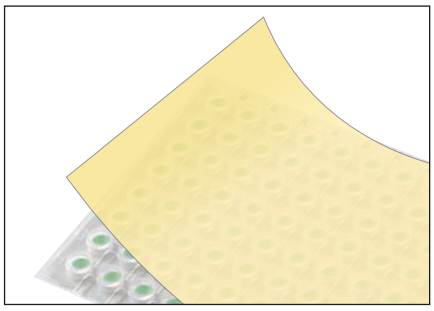


③Dry in room temperature.

Dry for at least 60 mins.
Reduced pressure drying is recommended.

* Insufficient drying may result in faulty performance.

④Seal the plate with the protection seal and store it in the room temperature.



* Make sure that the seal is tightly applied. Loose sealing may cause contamination.

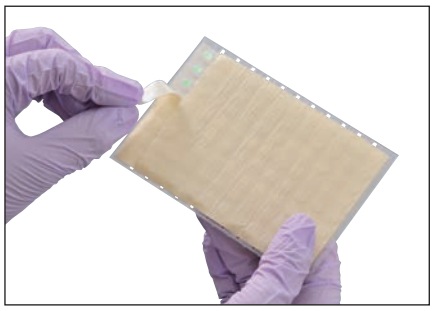
⑤Freeze for long period preservation.

Bundle 2 plates with rubber band etc. in the way the seal side of each plate faces to each other as seal's tackiness may weaken while freezing. Microbial's life in the plate may vary depending on type, urity and other conditions. Conduct half-life test on the sample where it is necessary.

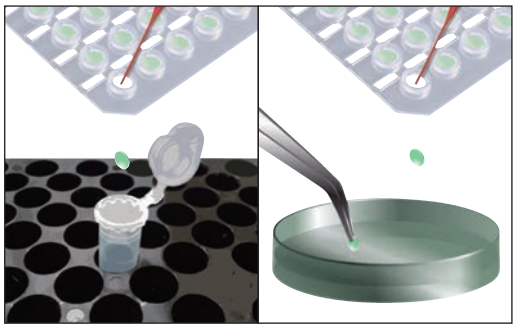
Extraction of Samples

①Peel off the protection seal .

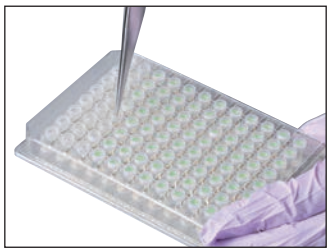
To peel only select lines, it is easier if you cut the seal in advance using a knife or scissors.



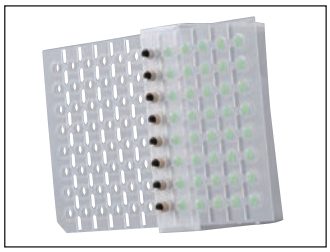
②Place the paper chip into a container.
In the case of agar, rub the paper chip onto agar.



- The plate has a well layout that matches the standardized well position of existing 96 well plates in your lab. Simply place the plate on your 96 well plate and push the paper chip into it.



Push the paper chips into wells by tweezers etc.



You can also use a pin-like tools with a diameter of 4.5㎜.

Microbial viability with time in Preservation Plate

https://watsonbiolab.com/pdf/livingsituation_e.pdf