Something Different.
WATSON BIO LAB
MADE IN JAPAN SINCE 1988
made in Japan

Preservation Plate

Under normal temperature and pressure

시료 보존 기간 5년!

* 보존 기간은 Sample에 따라 다를수 있습니다.

공간 절약!!!

No Deep freezer!
실온에서 보관 가능!

- *효율적인 공간 절약!*
- *안정적인 시료 보관!*
- *간단하고 편리한 사용 방법!*
- *96Well Plate와 완벽한 호환성!*
- *Polypropylene 재질로 손쉬운 절단!*

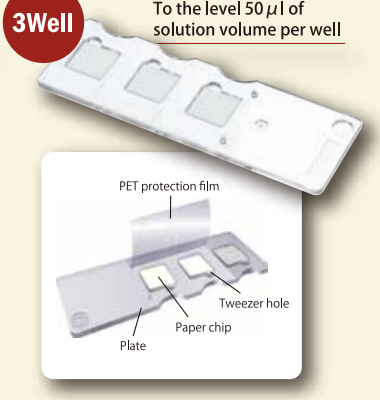
Preservation Plate

Line up

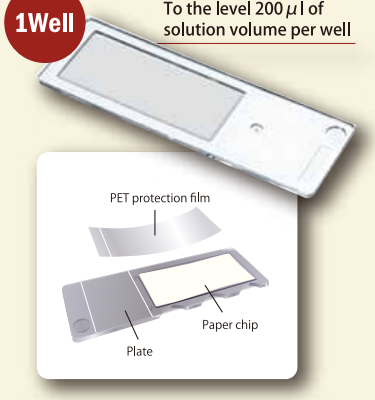
96Well — To the level 5 μl of solution volume per well

24Well — To the level 5 μl of solution volume per well

3Well — To the level 50 μl of solution volume per well



1Well — To the level 200 μl of solution volume per well



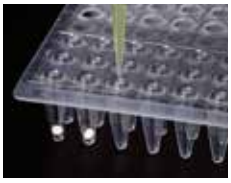
Nucleic acid, Blood, Throat swab, Feces, Bacteria 등의 Sample을 실온에서 장기 보관 가능!

Space Saving

It is very compact and space saving in comparison with preserving in tubes samples of liquid condition. Marking space on the plate and compact body make sample storage management easier.

Recover Samples Directly on PCR Plate

Paper chips can be put directly into the solution to start PCR or in situ hybridization.



Reduce Contamination Risk

Compared to the traditional way of repeated samplings from the same tube, Preservation Plate (PVP) can reduce contamination risk by using different wells on the PVP and/or changing the PVP sheet itself dependent on the sample (Note: Only 96well PVP can be cut easily with scissors).

Prevent Sample Deterioration

Sample deterioration is prevented as the PVP requires no repetition of freezing and melting.

No Reagent or Salt Used

Paper chips do not contain any reagents or salt so it does not choose type of eluent to be used when you recover samples.

Rich Selection

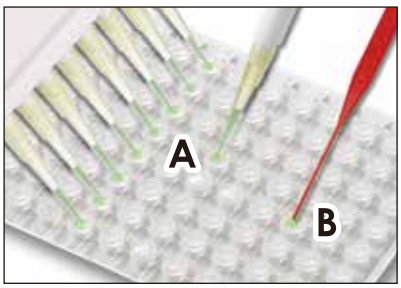
Please find a suitable plate type for different bioresourses and sample volumes.

【Sample Volume】
- 5 μl/sample ⇒ 24 well
- 50 μl/sample ⇒ 3 well
- 200 μl/sample ⇒ 1 well

【Sample type】
- **Nucleic Acid(DNA,RNA,oligonucleotide, plasmid,RNA probe, genomic DNA etc.)**
  ⇒ **Nylon paper chip**
- **Blood, Throat swab, feces, etc.**
  ⇒ **Cellulose paper chip**
- **Bacteria, Fungi, Yeast**
  ⇒ **Microbial Plate (for bacteria or yeast)**

Preservation Method

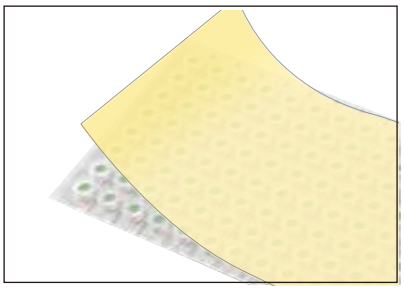
①Let the paper chip absorb a liquid sample.



A：For a liquid sample
B：For a sample from agar
* Protective agent is spread on paper chips and it may appear as dot pattern but it does not affect the qualities.

②Dry the sample
(Reduced pressure drying is recommended.)
【Recommended dry time】
・96well・・・60 minutes or more
・1/3/24well・・・90 minutes or more
* Insufficient drying may result in faulty performance.

③Seal the plate with the protection seal and store it in room temperature.
* Make sure that the seal is tightly applied. Loose sealing may cause contamination.

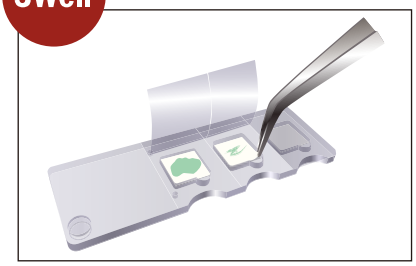


Recovery Method

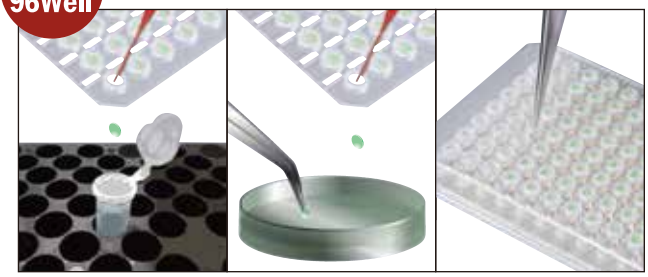
①Peel off the protection seal and place the paper chip into a container.

1Well Cut out the necessary size of paper chip.

3Well Pick up the paper chip from tweezer hole.



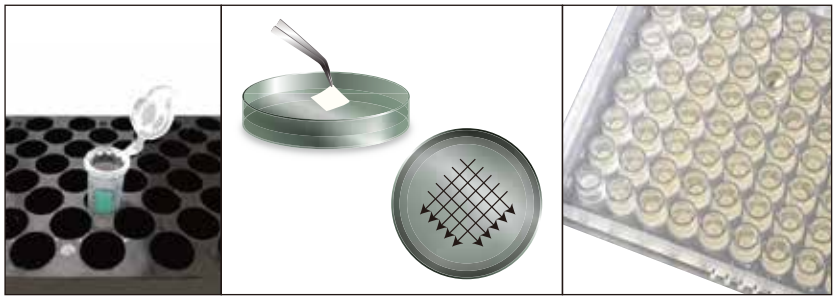
24Well 96Well



Push the paper chips by tweezers etc.

*Convenient well layout to match your 96 well plate. Simply place the plate on your 96 well plate and push the paper chip into it.

②Put the solution into the container and stir.
In the case of agar, rub the paper chip onto agar.



Normal Preservation Plate

Cat. No.	Item	Unit
176-501C	Preservation plate (cellulose) 96 well	5 PCS
176-502C	Preservation plate (nylon) 96 well	5 PCS
176-103GR	Preservation plate (cellulose) 24 well	5 PCS
176-104GR	Preservation plate (nylon) 24 well	5 PCS
176-301C	Preservation plate (cellulose) 3 well	10 PCS
176-302C	Preservation plate (nylon) 3 well	10 PCS
176-201C	Preservation plate (cellulose) 1 well	10 PCS
176-202C	Preservation plate (nylon) 1 well	10 PCS

Microbial Preservation Plate

Cat. No.	Item		Unit
176-531S	Microbial Preservation plate (for general bacteria) 96 well	Sterilized	5 PCS
176-551S	Microbial Preservation plate (for Yeast) 96 well	Sterilized	5 PCS
176-131S	Microbial Preservation plate (for general bacteria) 24 well	Sterilized	5 PCS
176-151S	Microbial Preservation plate (for Yeast) 24 well	Sterilized	5 PCS
176-331S	Microbial Preservation plate (for general bacteria) 3 well	Sterilized	5 PCS
176-351S	Microbial Preservation plate (for Yeast) 3 well	Sterilized	5 PCS
176-231S	Microbial Preservation plate (for general bacteria) 1 well	Sterilized	5 PCS
176-251S	Microbial Preservation plate (for Yeast) 1 well	Sterilized	5 PCS

■Microbial viability with time in Preservation Plate

No.	Kingdom	Genus Spiecies	Time(month)	0.5				1				3				6				9				12				24				36				48				60			
			JCM No.	−20℃	4℃	RT	37℃	−20℃	4℃	RT	37℃	−20℃	4℃	RT	37℃	−20℃	4℃	RT	37℃	−20℃	4℃	RT	37℃	−20℃	4℃	RT	37℃	−20℃	4℃	RT	37℃	−20℃	4℃	RT	37℃	−20℃	4℃	RT	37℃	−20℃	4℃	RT	37℃
1	True Bacteria	*Deinococcus grandis*	6269	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×
2		*Chryseobacterium meningosepticum*	21065	○	○	○	○	○	○	×	×	○	○	×	×	○	×	×	×	○	×	×	×	○	×	×	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
3		*Flavobacterium aquatile*	20475	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
4		*Sphingobacterium multivorum*	21156	○	○	×	×	○	○	×	×	○	×	×	×	○	×	×	×	○	×	×	×	○	×	×	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
5		*Sphingomonas paucimobilis*	7156	○	○	○	○	○	○	○	○	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	×	×	×	○	×	×	×	○	×	×	×
6		*Methylobacterium extorquens*	2802	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○	○	○	×	○	○	○	×	○	○	×	×	○	○	×	×	○	○	×	×
7		*Alcaligenes faecalis*	20522	○	○	○	○	○	○	○	○	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	×	×	×	○	×	×	×	○	×	×	×
8		*Comamonas testosteroni*	5832	○	○	×	×	○	○	×	×	○	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
9		*Delftia acidovorans*	5833	○	×	×	×	○	×	×	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
10		*Herbaspirillum seropedicae*	21448	○	○	○	○	○	○	○	○	○	○	×	×	○	×	×	×	○	×	×	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
11		*Halomonas halophila*	20791	○	○	×	×	○	○	×	×	○	×	×	×	○	×	×	×	○	×	×	×	○	×	×	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
12		*Pseudomonas aeruginosa*	5962	○	○	○	○	○	○	○	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
13		*Azotobacter vinelandii*	21475	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
14		*Pseudoalteromonas carrageenovora*	8851	○	○	○	○	○	○	×	×	○	×	×	×	○	×	×	×	○	×	×	×	○	×	×	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
15		*Shewanella putrefaciens*	20190	○	×	×	×	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
16		*Vibrio proteolyticus*	21193	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	×	○	○	×	×	○	○	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
17		*Escherichia coli*	1649	○	○	○	○	○	○	○	○	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	×	×	×	○	×	×	×	○	×	×	×	×	×	×	×
18		*Enterobacter aerogenes*	1235	○	○	○	○	○	○	○	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	×	×	×	○	×	×	×	○	×	×	×	○	×	×	×
19		*Bacillus subtilis*	1465	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
20		*Planococcus citreus*	2532	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○	○	×	×	○	○	×	×	○	○	×	×	×	×	×	×
21		*Lactobacillus delbrueckii subsp. delbrueckii*	1012	○	○	○	○	○	○	○	○	○	○	○	×	○	○	○	×	○	○	○	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×
22		*Arthrobacter globiformis*	1332	○	○	○	○	○	○	○	○	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×
23		*Micrococcus luteus*	1464	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×
24		*Brevibacterium linens*	1327	○	○	○	○	○	○	○	○	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	×	×	×	○	×	×	×	○	×	×	×
25		*Corynebacterium glutamicum*	1318	○	○	○	○	○	○	○	○	○	○	○	×	○	○	×	×	○	○	×	×	○	○	×	×	○	×	×	×	○	×	×	×	○	×	×	×	○	×	×	×
26		*Microbacterium lacticum*	1379	○	○	○	○	○	○	○	○	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	○	×	×	○	×	×	×	○	×	×	×	○	×	×	×
27		*Rhodococcus equi*	1311	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○	○	○	×	○	○	×	×	○	○	×	×	○	○	×	×	○	×	×	×
28	Fungi	*Saccharomyces cerevisiae*	7255	○	○	○	○	○	○	○	○	○	○	×	×	○	×	×	×	○	×	×	×	○	×	×	×	○	×	×	×	○	×	×	×	○	×	×	×	○	×	×	×
29		*Schizosaccharomyces pombe*	21877	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○	○	○	×	○	○	○	×	○	○	○	×	○	○	×	×	○	○	×	×	○	○	×	×

※ The above data are as of 1.May.2013 and may be subject to update in the future.
※ 2 types of preservation agent of different formulation are used for bacteria and yeast are used in the above experiments.
※ The above data are extracted from our own experiments and not to gurantee the results in other experiments.
Return or exchange of the products caused by the result of preservation are not acceptable.

For more information >>>
http://watsonbiolab.com/products/pvp/microbial_pvp.html

Something Different.
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MADE IN JAPAN SINCE 1988

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※The specification and the price etc. of the product might change without a previous notice.