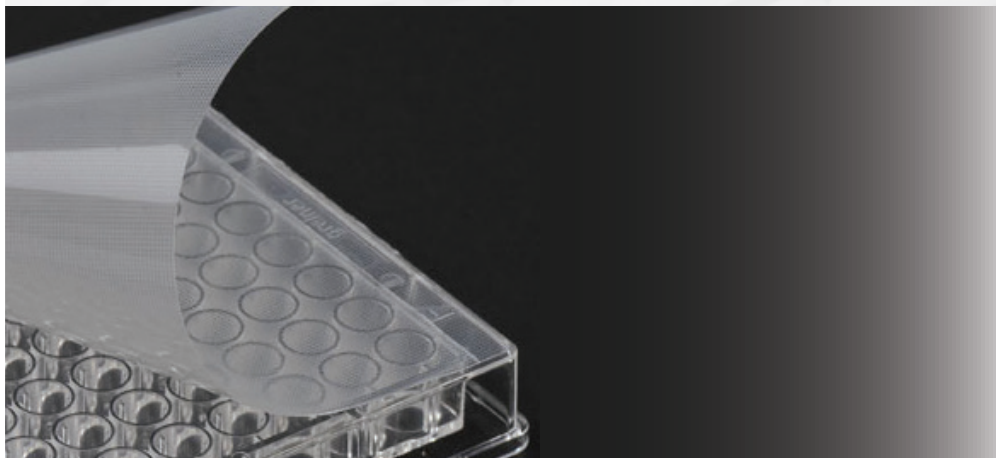




## EASY PIERCING SEAL (EPS) WELL PLATE COVERS



### Features

- High resistance to organic solvents such as DMSO, Acetonitrile, and Methanol.
- Embossed design pierces easily to prevent needle clogging or damage.
- Compatible with 24, 48, 96, 384, and 1536 well plates.
- Airtight sealing between  $-80^{\circ}\text{C}$  and  $25^{\circ}\text{C}$ .
- Void of residual adhesive following removal, which minimized the presence of extraneous background peaks.

# Easy Piercing Seal Well Plate Covers

## Instructions

- Inspect plate seals to ensure no damage or blemishes.
- Dispose of used consumables in accordance to the rules applicable to your laboratory.
- Do NOT autoclave.

## Storing

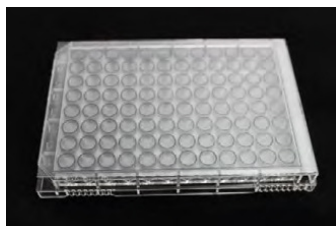
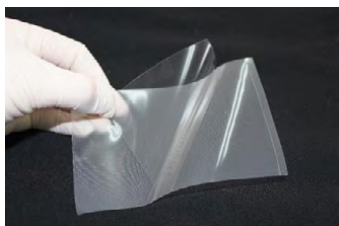
- Store at room temperature and protect from direct sunlight and UV light.

## Handling

- Hold the seal by the tab and remove the film.
- Place EPS on the plate with the adhesive side facing down and avoid wrinkles.
- Apply firm pressure to the rim of each well.

Note: For best results, the use of a roller or a paddle is recommended. If hand sealing, make sure to apply pressure to each well individually.

- The plate is now sealed and ready for use or storage.



Dimensions	Material	Functional Temperature Range
80 mm x 122 mm	Polyolefin + Synthetic Adhesive	-80 to +25°C

Product Number	Quantity
WSH96EPS	1 Box (100 Sheets/Box)
WSH96EPS10	10 Boxes (100 Sheets/Box)

## Summary

The EPS covers create airtight seals for both volatile and hygroscopic solvents such as Acetonitrile (ACN) and Dimethyl Sulfoxide (DMSO) from -80°C to 25°C.

## Method

The ability of the EPS covers to form airtight seals was evaluated by measuring the weight of respective well plates over time. 300 µl of DMSO and ACN were dispensed into all wells within a 96 well plate. The plates were then sealed with an EPS cover and stored at varying temperature settings of -80°C, -20°C, 4°C, 25°C. To avoid adhesion of any foreign material or frost, the plate was enclosed in a plastic bag. The weight was measured on Day 1, Day 3 and Day 10.

In the case of -80°C, -20°C, 4°C, 25°C, vapor outside the plates was removed before taking the measurements by leaving plates in desiccators for 30 to 60 minutes.

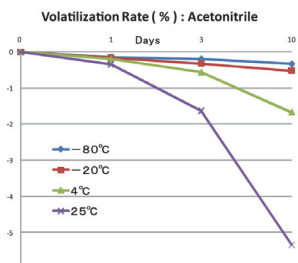
The total amount of solvent was 28.8 ml (300 µl x 96), which was used to calculate the total weight of solvent using the solvent density value, 0.784 g/ml for ACN and 1.10 g/mL for DMSO.

## Results

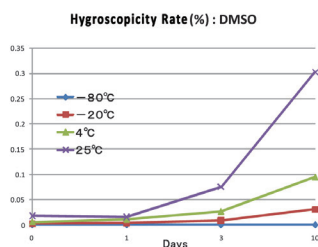
The EPS covers demonstrated airtightness to ACN under the temperatures of -80°C, -20°C, 4°C, 25°C (Graph 1). At 25°C on Day 10, volatilization rate was about 5.4%.

The airtightness of the EPS covers was demonstrated for hygroscopic solvent, DMSO in Graph 2. The maximum increase in weight by hygroscopicity was observed at 25°C on day 10, which was 0.3%.

Graph 1



Graph 2



# Easy Piercing Seal Well Plate Covers

## PRICES AND TERMS

Our prices are subject to change without notice. The price in effect when we receive your order will apply. All prices are in US Dollars and are F.O.B. Lewistown, PA 17044. Terms of payment are net 30 days.

## MINIMUM ORDERS

We welcome all orders, therefore, we do not have a minimum order requirement. When ordering, please include your purchase order number, complete "Ship To" and "Bill To" address, catalog number, quantity, and description of product(s). Also include your name and a phone number where you can be reached should we have any questions concerning your order.

## SHIPMENTS

Normal processing is within 24 hours after receipt of an order. Unless special shipping requests have been made, our trained staff will send all orders by UPS Ground service. The appropriate shipping charges (freight & insurance costs) will be added to the invoice, unless otherwise instructed by the customer.

## SPECIAL PRICING

We offer special pricing for volume purchases and standing orders. These discounts apply to bonded phase extraction column purchases only. Please call a sales representative for more information on special pricing qualifications.

## RETURN POLICY

Our Quality Manager will handle all returns. Before returning merchandise, please call to obtain a return authorization

number from the quality manager. We will need to know the reason for the return, date of purchase, purchase order number and invoice number in order to issue a return authorization number. Return merchandise must be received before a credit can be issued. Returns will not be accepted after 90 days. A restocking fee of 25% of the price paid, or a minimum of \$25.00 (whichever is greater) will be charged on all returns.

## WARRANTY

All products manufactured by UCT are guaranteed against defects in materials and workmanship for a period of 90 days after shipment. UCT will replace any items that prove to be defective during this time period. The exclusive remedy requires the end user to first advise UCT of the defective product by phone or in writing and must include order number, the lot number and the shipping date.

To initiate this action, photographs of the product, including packaging and labeling of the containers, must be submitted to the UCT Representative for approval. With approval a return authorization can be initiated, and must be received within 30 days.

Once the materials arrive at UCT a further inspection of the materials must be completed and accepted by our Quality Manager prior to further action of credits or replacement. UCT's total liability is limited to the replacement cost of UCT products.

This warranty does not apply to damage resulting from misuse.

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