

**PELCO Stain Saver<sup>™</sup>**  
**Product No 21092, 21095**

The PELCO Stain Saver<sup>™</sup> is designed for conventional or microwave-based immunohistochemistry. It facilitates the staining of tissues on coverslips or slides. A coverslip of the appropriate size is used to create the capillary gap between tissues on a slide. If the tissue is on a coverslip, then the slide serves as the other component to create the capillary gap. The capillary gap (320µm) is based on using a #2 coverslip adhered to a mesa(s) (see Figs. 1-3). There are two designs of the PELCO Stain Saver<sup>™</sup>:

- 21092.....PELCO Stain Saver<sup>™</sup>, T-1 Kit is designed for any shape or size coverslip up to 24x50mm
- 21095.....PELCO Stain Saver<sup>™</sup>, T-2 Kit is designed when two tissues are to be stained with two different antibodies, coverslip size 22 x 22mm or smaller

- Ideal for tissue cultures grown on glass or plastic coverslips
- Create a capillary gap between any coverslip and 1 x 3” or 2 x 3” slide
- Reduces the per slide cost of your antibody staining up to 90%

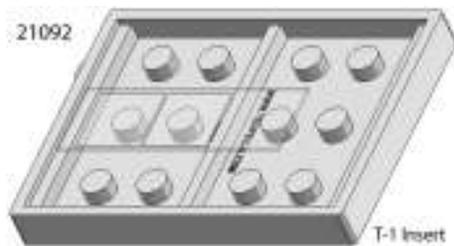


Figure 1.

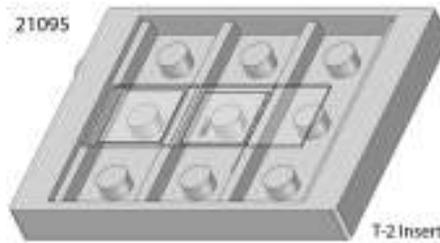
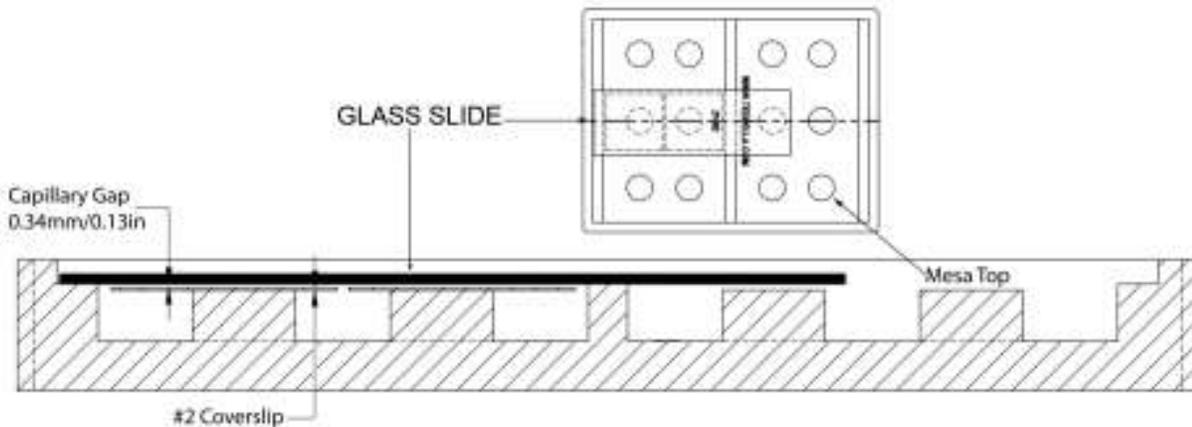


Figure 2.

Fig. 3. Representative cross section of 21092/21095 staining insert (4-1/2x3-3/8x1/2 in)



The design of the PELCO Stain Saver™ will limit the amount of precious antibody to less than 200ul for a 22x22mm (#2) coverslip-sized area. Total stainable area on a slide or coverslip can be up to 24x50mm (21092). Either design will accommodate round or square coverslips. The tissue to be labeled can be on a coverslip or slide because both are employed to create the uniform capillary gap. The unique adhesive properties of the mesas in the design of the PELCO Stain Saver™ provide adhesion of either Thermanox™ or glass coverslips to the mesa tops. Slight pressure with any pointed object (tweezers tips, end of a wooden stick or dissecting needle) to the top of the coverslip above the mesa will produce the adhesion.

Coverslips are easily stained and rinsed in the PELCO Stain Saver™. When staining slides it is recommended to use a Coplin Jar or similar device to rinse between antibody labeling steps. For conventional immunohistochemistry, the PELCO Stain Saver™ can be placed in a specially designed humid chamber to facilitate labeling protocols requiring up to 48-hour incubation times without risk of evaporation.

**2239-6** .....PELCO® Pro Desiccators / Storage Box, Small (Holds 1 Kit)

**2239-2**..... PELCO® Pro Desiccators / Storage Box, Large (Holds 4 Kits)

**Directions for Use:**

1. A coverslip is placed on one or more mesas and gentle pressure is applied with a sharp tipped object like a tweezer tip. The adhesive properties of the insert will keep the coverslip in place. Apply the appropriate volume of antibody relative to the size of the coverslip. When the slide is placed on top (see Figs. 1&2) the solution should spread to cover the whole surface of coverslip. Each kit can stain up to 3 each 1 x 3" slides or 1 each 2 x 3" slide at a time.
2. To reduce the volume of the capillary gap, glue two coverslips together with super glue and then place on the mesa top.
3. For microwave-based staining the PELCO Stain Saver™ Kit is placed on the PELCO ColdSpot®.
4. For conventional staining with the PELCO Stain Saver™ it is recommended to use a humid chamber for staining times over 1 hour. Do not completely close the lid of the black box when using the humid chamber. Staining times up to 48 hours can be undertaken without the risk of antibody evaporation.
5. After use the PELCO Stain Saver™ insert should be removed from the black box and washed in hot soapy water and air-dried to ensure the adhesive properties of the mesas is maintained.