



## **Liquid Plate Sealer<sup>®</sup>**

For extra long storage of coated plates.

### Product description

pH-value: 6.5 ± 0.2

Preservative: contains 0.045% ProClin<sup>®</sup> 300 (v/v)

Storage: shelf life (when stored unopened at 2 - 8 °C): 1 year

**For research use only, not for diagnostic use.**

### Available

package sizes:	50 mL	order number 160 050
	125 mL	order number 160 125
	500 mL	order number 160 500

### Instructions for use

*Liquid Plate Sealer<sup>®</sup>* is ready-to-use. *Liquid Plate Sealer<sup>®</sup>* is added to the coated microtiter plates, polystyrene beads or glass slides. *Liquid Plate Sealer<sup>®</sup>* seals the plates with a uniform stabilizing layer demonstrating good solubility without affecting the assay afterwards. This protective layer stabilizes coated molecules for long-term storage.

*Liquid Plate Sealer<sup>®</sup>* is used directly after blocking and washing. *Liquid Plate Sealer<sup>®</sup>* seals and stabilizes coated proteins and antibodies. In the case of strong background problems we recommend the use of our product *The Blocking Solution* (order number 110 500) before sealing. *The Blocking Solution* is characterized by a higher blocking efficiency than most other known solutions.

The microtiter plate or solid phase is incubated with *Liquid Plate Sealer<sup>®</sup>* and dried afterwards. This expands the shelf life of the coated molecules substantially to typically 1 to 3 years when stored cool and dry.

The assay buffer or the specimen can be added directly onto the sealed plate (solid phase) for use in the assay. An additional washing step is not necessary.

*Liquid Plate Sealer<sup>®</sup>* is free of proteins.

Specifications given regarding the shelf life of the sealed plate represent guidance values only. Longer shelf lives have been reported for some assays, but may not be true for others, thus requiring the testing of the shelf life of each individual assay by the customer.

## Sealing:

1. Commonly used coating and blocking procedure for microtiter plate.
2. After blocking: Wash 3 times with 200-300µl PBS or Washing buffer without detergents (e.g. order number 146 500 or 141 500).
3. Add 200µl *Liquid Plate Sealer*<sup>®</sup> per well and incubate for 15 - 90 minutes at approx. 20 - 30 °C. (Volume per well should be 50 µl more than the coating volume or minimum the same volume as the coating volume to ensure that the complete coated surface area is covered by *Liquid Plate Sealer*<sup>®</sup>.)
4. Remove *Liquid Plate Sealer*<sup>®</sup> by suction. You can remove residual buffer by tapping the plate on absorbent paper. Incubate the plate at 37°C until dryness. Incubation time is typically in between 60 to 120 minutes, depending on temperature, incubator type, number of plates in the incubator and the (active) air circulation in the incubator.

An alternative method is air drying of the plate at room temperature (RT). It has to be mentioned that the resulting shelf life (also dependent on the antibodies) can be shorter compared to drying in an incubator. After drying at RT, the plates can be stored in the fridge until their use.

5. Storage:  
Store the plate sealed in a pouch under dryness (with additional desiccant if necessary) at 2-8°C for up to 1-3 years.  
or:  
An alternative method is storage of the plate without a pouch in the fridge. The shelf life of the plate will be reduced to several months instead of years. We recommend sealing of the plate with an appropriate adhesive film. Thus influence of air humidity and contamination will be reduced during storage. This simple method is a good and often used option for plates prepared for use in the own laboratory.  
Addition of desiccant and sealing in a pouch is not necessary in this alternative approach.

If you have any questions, please feel free to contact our technical service at [support@candor-bioscience.com](mailto:support@candor-bioscience.com) or by phone + 49 (0) 7522/ 79 52 7 12.

For further information please visit [www.candor-bioscience.com](http://www.candor-bioscience.com).

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