

Liquid Plate Sealer® (5x)

Product overview

Catalog number	CR161
Description	Stabilizer for coated antibodies and antigens on surfaces
Storage	2 – 8 °C
pH-value at 19.0 – 21.0 °C	6.5 ± 0.5
Preservative	Contains < 0.0014 % [w/w] reaction mass of CMIT/MIT (3:1)
Expiry date when stored unopened	See label on the bottle
FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY	

Fields of application

Liquid Plate Sealer® (5x) is a high-performance stabilizer that effectively preserves the structural integrity and activity of coated proteins during dry storage, and blocks surfaces to minimize non-specific binding. Liquid Plate Sealer® (5x) is ideal for use with antibodies, antigens and enzymes on different surfaces, including polystyrene microtiter plates, beads, glass surfaces and membranes, for subsequent use in immunoassays and related analytical applications.

Instructions for use

Liquid Plate Sealer® (5x) dilution	Liquid Plate Sealer® (5x) is a concentrated solution. Prior to use, dilute the concentrate 1:5 with purified water to obtain a ready-to-use working solution.
Use in microtiter-based assays (ELISA, CLIA, FIA)	<p>The working solution of Liquid Plate Sealer® (5x) is used directly after coating, or after blocking and washing. Liquid Plate Sealer® (5x) seals and stabilizes coated proteins.</p> <p>Alternatively, Liquid Plate Sealer® (5x) can be added to a coating reaction (e.g. 50 µl Liquid Plate Sealer® (5x) into 200 µl coating volume) to stop the coating, block the surface and stabilize the coated proteins in one step.</p> <p>In case of strong background signals, we recommend pre-treating the surface with The Blocking Solution (CR110) prior to applying the sealer.</p> <p>The microtiter plate is incubated with the working solution of Liquid Plate Sealer® (5x) and dried afterwards. After drying the plate or solid phase, the coated molecules have a significantly longer shelf life of typically 2 to 3 years when stored in a cool and dry place. To use the stabilized plates</p>



(solid phases) for an assay, the assay buffer or the sample can be applied directly to the plate. Additional washing step are not required.

Procedure A (volumes for a 96-well plate)

1. Follow the standard procedure for coating and blocking of microtiter plates. Remove the blocking solution at the end of the incubation.
Note: Detergent residues can have a negative impact on the stabilization process. When using blocking buffers with increased detergent concentrations, the wells should therefore be washed with 200 – 300 µl wash buffer without detergents (CR 141 or CR146) after blocking.
2. Add 200 µl/well Liquid Plate Sealer® working solution and incubate for 15 - 90 minutes at 20 – 30 °C.
Note: The volume per well should at least match the volume used for the coating or ideally exceed it by at least 50 µl. This ensures that the entire coated surface is covered by Liquid Plate Sealer® working solution.
3. Aspirate Liquid Plate Sealer® working solution. Buffer residues can be removed by additionally knocking out on absorbent paper. Incubate plates at 37 – 40 °C until dry. Typical incubation times are between 60 and 120 minutes, depending on the temperature, the type of incubator, the number of plates and the (active) air circulation of the incubator.

Store the plate sealed in a pouch in a dry place (with additional desiccant if necessary) at 2 – 8 °C.

Procedure B (volumes for a 96-well plate)

1. Follow the standard coating procedure for the microtiter plates.
2. After completion of the coating process*, dilute Liquid Plate Sealer® (5x) directly into the well.
Example: for 200 µl coating solution, add an additional 50 µl of Liquid Plate Sealer® (5x) directly into the well. Incubate for 15 - 90 minutes at approx. 20 - 30 °C.
3. Aspirate the solution. Buffer residues can be removed by additionally knocking out on absorbent paper. Incubate plates at 37 – 40 °C until dry. Typical incubation times are between 60 and 120 minutes, depending on the temperature, the type of incubator, the number of plates and the (active) air circulation of the incubator.
4. Storage: Store the plate sealed in a pouch in a dry place (with additional desiccant if necessary) at 2 – 8 °C for up to 2 to 3 years.

*Addition of Liquid Plate Sealer® (5x) stops the coating process. The optimum time required for coating individual antibodies or antigens should be determined before using Liquid Plate Sealer® (5x).

Additional information

Shelf life values are provided as general guidelines. While extended stability has been observed in many cases, these results cannot be universally applied due to variability among proteins. Each assay should be evaluated independently to determine the achievable stability.

Liquid Plate Sealer is a registered trade mark of CANDOR Bioscience.



Legal disclaimer

Medix Biochemica products meet their specifications if transported, stored, and used according to the instructions. Medix Biochemica's products may not be used or reproduced without Medix Biochemica's written permission.