

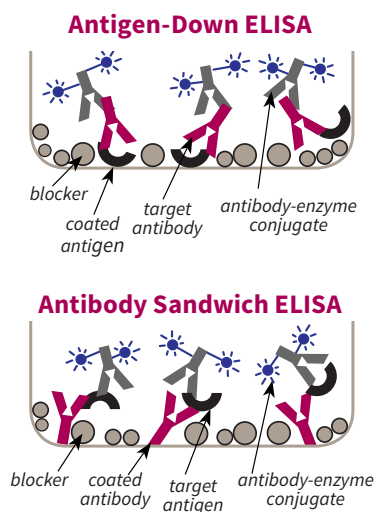
Phosph-Free Block

Reduces backgrounds using inert blockers for AP and ultra-sensitivity.

Phosph-Free Block is a novel non-protein blocking solution that does not contain phosphates. It is formulated for ELISAs using alkaline phosphatase detection and for assays with ultra-sensitivity requirements. The synthetic formulation avoids false positives associated with animal proteins (e.g., BSA) and eliminates non-specific background noise without the use of conventional protein additives. By depositing inert, non-reactive blocking molecules onto the plate, Phosph-Free Block reduces non-specific binding of enzyme-labeled conjugates to the microtiter plate, enhancing the sensitivity of the assay. It also stabilizes coated protein for improved retention of antigen epitope or antibody binding activity during long-term storage. Phosph-Free Block contains an antimicrobial agent for room temperature blocking of the plate and for long-term storage of the dried plate at 2-8°C.

Phosph-Free Block works on all types of polystyrene plates except Immulon® II microplates. When blocking with Phosph-Free Block, ICT recommends Corning® 96-Well EIA/RIA Stripwell™ microplates (ICT catalog #25).

When preparing plates, the antibody or antigen is typically coated using 50-200 µL of coating solution per well. After coating, plates are normally washed to remove unbound proteins and then blocked using a larger volume of blocking buffer than was used for coating, such as 300 µL per well. This ensures that all uncoated regions inside the well are blocked. A 96-well plate blocked using this method will require 28.8 mL of blocking solution. Allow approximately 10% extra blocking buffer to account for losses during pipetting.



BRIGHT MINDS, BRIGHT SOLUTIONS.

ImmunoChemistry Technologies, LLC gratefully acknowledges the significant contributions made by one of its founders, Brian W. Lee, Ph.D in the development of this product, including the creation and illustration of its strategy and protocol.

PHOSPH-FREE BLOCK

Size	Catalog#
100 mL	6262
500 mL	6263
1 L	6264
10 L	6265

INSTRUCTIONS:

1. ELISA plate (use coating buffer catalog #645 or #6248). Do not use Immulon® II plates.
2. Incubate 8-24 hours at room temperature.
3. Aspirate the coating solution.
4. Wash plate twice with ELISA Wash Buffer (catalog #652).
5. Block the uncoated regions of the ELISA plate by pipetting 300-400 µL of blocking buffer into each well. Always use a greater volume of blocking buffer than was used for the coating solution.
6. Incubate 8-24 hours.
7. Aspirate the blocking buffer.
8. Run the assay immediately, or dry the plate for long-term storage and seal in a foil bag (catalog #6288) with a desiccant pack (catalog #6289).

For more ELISA protocols and information, please visit www.immunochemistry.com.

SPECIFICATIONS:

- Clear liquid
- 1X ready to use
- pH 7.1-7.5

STORAGE:

- 24 months at 2-8°C
- 1 week at room temperature

SAFETY & USAGE:

- Contains ≤0.1% sodium azide
- SDS available at immunochemistry.com
- Not for human or drug use
- For research use only

Build a better assay with ELISA Solutions from ImmunoChemistry Technologies.



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