General Block ELISA Blocking Buffer

Cat #: orb623166

General Block

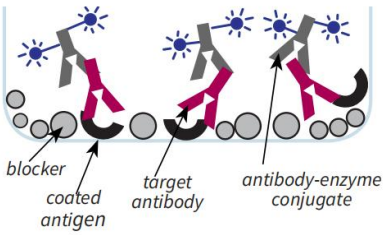
Reduces background using a mixture of blocking agents, including BSA.

General Block contains mammalian protein blocking agents to provide adequate blocking strength for most immunoassays, including mono- clonal and polyclonal antibody capture ELISAs and peptide and protein antigen-down ELISAs. This unique blocking buffer contains a heterogeneous mixture of proprietary protein stabilizers and small molecules (including BSA) that block the uncoated regions of the plate. Blocking with ICT's General Block minimizes non-specific binding interactions during the assay process to reduce background noise and enhance the sensitivity of the assay.

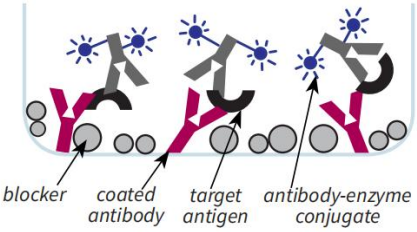
General Block provides a micro hydrated environment to stabilize the adsorbed protein. This prevents degradation of the coated material and improves retention of protein antigenicity or antibody activity during long-term storage. General Block contains an antimicrobial agent for room temperature blocking of the plate and for long-term storage of the dried plate at 2-8°C.

When preparing plates, the antibody or antigen is typically coated using 50-200 µL of coating solution per well. Aft er coating, plates are normally washed to remove unbound proteins and then blocked using a larger volume of blocking buff er 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. However, allow approximately 10% extra blocking buff er to account for losses during pipetting.

Antigen-Down ELISA



Antibody Sandwich ELISA



INSTRUCTIONS:

1. Coat antibody or antigen onto the ELISA plate.
2. Incubate 8-24 hours at room temperature.
3. Aspirate the coating solution.
4. Wash plate twice with ELISA Wash Buffer.
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; do not wash.

8. Run the assay immediately, or dry the plate for long-term storage and seal in a foil bag with a desiccant pack.

SPECIFICATIONS:

- Clear liquid
- 1X ready to use
- pH 7.2-7.6

STORAGE:

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

SAFETY & USAGE:

- Contains ≤ 0.1% sodium azide
- Not for human or drug use
- For research use only