

**Universal Blocking Buffer (Catalog#TBS5013)****Description**

Universal Blocking Buffer is a highly effective blocking reagent capable of reducing non-specific background staining associated with immunodetection techniques such as immunocytochemistry, ELISA, and Western blotting.

**Applications**

Antibodies and other proteinaceous reagents tend to bind non-specifically to membranes, plates, and tissues. To minimize this nonspecific adsorption, a blocking buffer is used. Primary requirements of an ideal blocking buffer include enhancement of the signal-to-noise ratio and no cross-reactivity with the detection components. TBS's Universal Blocking Buffer shows no cross-reactivity, as it does not contain biotin or enzymes found in non-fat milk preparations, and it blocks more effectively than serum albumins. For example, ELISA plates can be blocked in a few minutes instead of an hour. The blocking potency of the Universal Blocking Buffer is superior to most other conventional formulations in producing a high signal-to-noise ratio. Universal Blocking Buffer may also be used as an effective diluent for antibodies.

**Storage and Handling:** Supplied as a working solution, size 100 mL. Store at 4 °C.

**Directions for Use:**

The solution is ready to use.

**Immunohistochemistry:** Apply enough reagent to cover the tissue section and incubate for 5 min at room temperature, or 2-3 min at 37 °C.

**Membrane Blots:** Incubate membranes on a shaker in 0.5-1 mL/cm<sup>2</sup> of reagent for 15 min to 1 hr at room temperature, or 8-30 min at 37 °C.

**EIA:** Add 300 µL of reagent/well for 96-well plates, and incubate for 10 to 30 min at room temperature, or 5-15 min at 37 °C.

**Precautions**

The solution contains 15 mM sodium azide and therefore cannot be used as a diluent for peroxidase conjugate. Antibodies against phosphotyrosine and casein chains will cross-react with reagent; an alternative blocking reagent should be used for such antibodies.

**RELATED PRODUCTS:**

PBS-10x (catalog# TBS5004)  
TBST Buffer-10x (catalog# TBS5008)  
Protein Assay kit (catalog# TBS2005)  
Cell Lysis Buffer (catalog# TBS5001)  
Antibody Diluent Kit (catalog# TBS5012)