SmartBlock™ *(article no. 113)*

BSA-free blocker for saturating free binding sites on plastic surfaces or other protein binding surfaces

Storage:	2 – 8 °C or -15 to -30 °C (tolerates repeated freezing and thawing cycles)
pH-value at 19.0 – 21.0 °C:	7.0 ± 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 general laboratory use

Instructions for use

SmartBlock™ is ready-to-use. Please shake the buffer thoroughly before use.

Saturation / Blocking of microtiter plates

1. If the plate was treated with reagents containing detergents please wash the plate 3 times in a detergent-free wash buffer (e.g. *Washing Buffer TRIS 10x without Tween,* article no. 146 or *Washing Buffer PBS 10x without Tween*, article no. 141). If only a *Coating Buffer* (article no. 120 or 121) was used, aspirate *Coating Buffer* or empty plates by tapping firmly onto paper cloth.

2. Add 200 - 300 µl *SmartBlock*™ per well. Incubate at room temperature for 1 - 4 hours or overnight. 1 hour is often sufficient. Note: The blocking time can be further reduced by shaking the plate at 600 - 900 rpm, depending on the application. The blocking time depends on the properties of the surface to be blocked and the ambient conditions and should therefore be tested.

3. Aspirate *SmartBlock*™ or empty plates by tapping firmly onto paper cloth. Wash 3 times in wash buffer containing a non-ionic detergent (e.g. *Washing Buffer TRIS*, article no. 145, or *Washing Buffer PBS*, article no. 140).

Saturation / Blocking of membranes

1. If the membrane was treated with reagents containing detergent please wash the membrane 3 times in a wash buffer free of detergents (e.g. *Washing Buffer TRIS 10x without Tween,* article no. 146 or *Washing Buffer PBS 10x without Tween*, article no. 141).

2. Incubate membrane in *SmartBlock*™ at room temperature for 1 - 4 hours or overnight. 1 hour is often sufficient. The blocking time depends on the properties of the membrane and the ambient conditions and should therefore be tested.

3. a) Wash membrane 3 times in a wash buffer containing a non-ionic detergent, (e.g. *Washing Buffer TRIS*, article no. 145 or *Washing Buffer PBS*, article no. 140).

   OR

   b) add antibody for detection and continue incubation and detection.

Suitability of *SmartBlock*™ for a specific assay has to be tested by the user.

In case satisfying results cannot be obtained with the *SmartBlock*™, e.g. if your assay measures analytes in plasma, serum or tissue specimen, we strongly recommend using *The Blocking Solution* (article no. 110).

For further information please visit www.candor-bioscience.com.