SmartBlock™ *(Cat No. CR113-LS)*

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 detergent, please wash the plate 3 times in a detergent-free wash buffer (e.g. Washing Buffer TRIS without Tween (10x), Cat. No. CR146-LS or Washing Buffer PBS without Tween (10x), Cat. No. CR141-LS). If only a Coating Buffer (e.g. Cat. No. CR120-LS or CR121-LS) 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 h or overnight. 1 h is often sufficient. Note: The blocking time can be further reduced by shaking the plate at 600 - 900 rpm, depending on the application. As the required blocking time depends on the properties of the surface to be blocked and the ambient conditions, it should be determined experimentally.

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 (10x), Cat. No. CR145-LS, or Washing Buffer PBS (10x), Cat. No. CR140-LS).

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 without Tween (10x),* Cat. No. CR146-LS or *Washing Buffer PBS without Tween (10x)*, Cat. No. CR141-LS).

2. Incubate membrane in *SmartBlock*™ at room temperature for 1 - 4 h or overnight. 1 h is often sufficient. As the required blocking time depends on the properties of the surface to be blocked and the ambient conditions, it should be determined experimentally.

3. a) Wash membrane 3 times in a wash buffer containing a non-ionic detergent, (e.g. *Washing Buffer TRIS (10x)*, Cat. No. CR145-LS, or *Washing Buffer PBS (10x)*, Cat. No. CR140-LS).

   OR

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

Suitability of *SmartBlock*™ for a specific assay must 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* (Cat. No. CR110-LS).

Note: CANDOR products are shipped at ambient temperature. Stability studies have demonstrated that prolonged exposure to ambient conditions does not affect product quality.

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