Blocking Buffer I

Solution for blocking unspecific binding sites for ELISA, EIA & Western Blots

Product No. A7099

Description

Composition: low-molecular weight highly purified casein with NaCl and Tween

pH value: pH 7.2 ± 0.2

Preservative: contains 0.1 % ProClin® 300

Storage: -20°C or at 2 - 8°C

Stability: at -20°C: 1 year, repeated freeze / thaw cycles are possible
at 2 - 8°C: 6 months

A7099,0050	50 ml
A7099,0125	125 ml
A7099,0500	500 ml

Instructions for use

Blocking Buffer I saturates free binding capacities on plastic consumables and other surfaces like ELISA plates and blotting membranes. Thus a reduction of unspecific binding on surfaces can be achieved.

Efficiency of blocking is significantly improved in comparison to standard blocking procedures by a special production method, which leads to casein molecules with many different molecular sizes. *Blocking Buffer I* can be used in ELISA, EIA, RIA, Western blotting, immuno-PCR, protein arrays as well as immunohistochemistry.

Immediately before use the buffer should be mixed thoroughly.
Blocking Buffer I is ready-to-use. Repeated freezing and thawing is possible. After immobilisation of capture antibody or target protein *Blocking Buffe I* is applied without dilution in wells or on membranes. Incubation time has to be adopted depending on surface characteristics by the user.
We recommend blocking over night at 4°C, but in many cases shorter incubation is also promising.

After blocking the surface has to be washed with *Washing Buffer* to make it useable for the next working steps.

	Blocking Buffer I	Other blockers
Background reduction	**Extremely efficient** background reduction – even in critical assays	Commonly known background reduction
Useability	For use in **all immunoassays**	Some products only for use in ELISA or Western blotting, many different specialised products
Ease of application	***Ready-to-use***	For some products pre-dilution with other buffers recommended
Useability with different detection methods	**Useable with all common detection methods**, very good results with peroxidases, phosphatases and fluorescent labels	Useability depends on product, negative quenching with fluorescent dyes has to be checked with some products
Effects on validation (e.g. for new FDA-guidance for industry)	**Positive effects, variations decrease**, background effects are avoided, validation criteria are met easily	Normal effects on validation, no decrease in variations shown
Storage and transportation	Cooling and freezing for long-time storage, repeated freezing and thawing possible, but **no cooled transportation needed**	Cooling or freezing for long-time storage, cooled transportation for many products recommended

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