

## Data Sheet

# Biotin Blocking Buffer

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<b>Description</b>	Depending on the host organism protein extracts may contain small amounts of biotinylated proteins (e.g. biotin carboxyl carrier protein of <i>E. coli</i> , BCCP, 22kDa). When analyzing such extracts in Western blot assays using <i>Strep-Tactin</i> AP or <i>Strep-Tactin</i> HRP conjugates to detect <i>Strep-tag</i> proteins, the biotinylated proteins might be detected as well and therefore might lead to false positive bands. To selectively block the biotinylated proteins Biotin Blocking Buffer is added to the Western blot membrane prior to the addition of the <i>Strep-Tactin</i> conjugates.
<b>Application</b>	After SDS-PAGE and electrotransfer of the proteins to an appropriate membrane, the membrane is blocked (e.g. with 20 ml 3 % BSA, 0.5 % Tween in PBS buffer for 1 hour at room temperature or overnight at 4 °C). Do not use milk powder, as milk is one of the richest sources of biotin! Subsequently, wash the membrane three times for 5 minutes with PBS-Tween (= PBS with 0.1 % v/v Tween 20). Before detection of the recombinant protein via <i>Strep-Tactin</i> AP or <i>Strep-Tactin</i> HRP, incubate the membrane for 10 minutes in 10 ml PBS-Tween containing Biotin Blocking Buffer in a concentration of 1:1000
<b>Storage</b>	4°C
<b>Shipping</b>	RT
<b>Stability</b>	6 months after shipping

## For research use only

*Strep-tag*® technology for protein purification and detection is covered by US patent 5,506,121, UK patent 2272698 and French patent 93 13 066; the tetracycline promoter based expression system is covered by US patent 5,849,576 and *Strep-Tactin*® is covered by US patent 6,103,493. Further patent applications are pending world-wide. Purchase of reagents related to these technologies from IBA provides a license for non-profit and in-house research use only. Expression or purification or other applications of above mentioned technologies for commercial use require a separate license from IBA. A license may be granted by IBA on a case-by-case basis, and is entirely at IBA's discretion. Please contact IBA for further information on licenses for commercial use. *Strep-tag*® and *Strep-Tactin*® are registered trademarks of IBA GmbH.