

## Product Datasheet

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| <b>Product Name:</b>       | HiGlo Fluorescent Western Blocking Buffer  |
| <b>Product:</b>            | This blocking buffer is specifically designed for western blotting using fluorochrome conjugated antibodies and can be used for membrane blocking and to dilute both primary and secondary antibodies  |
| <b>Product Type:</b>       | Blocking Reagent for Fluorescent Western Blotting  |
| <b>Product code:</b>       | BUF81200-125<br>BUF81200-500   |
| <b>Amount:</b>             | 125 ml<br>500 ml   |
| <b>Concentration:</b>      | 1X   |
| <b>Preservative:</b>       | Thimerosal is added as an antimicrobial agent  |
| <b>Sterilisation:</b>      | This product was aseptically filtered through a Millipore 0.22 micron filter into clean, pre-sterilized containers. The product was tested on trypticase soy agar for 24 hours, 48 hours and 72 hours and was found to be negative for bacteria.   |
| <b>Purity/Specificity:</b> | Blocking buffer was prepared using ultra-pure reagents dissolved in pharmaceutical grade water (WFI) and consists of a proprietary protein formulation in TRIS buffered saline at pH 7.6 with thimerosal added as an antimicrobial agent.  |
| <b>Background:</b>         | Pure nitrocellulose membrane is recommended for maximum performance. Other membranes, such as PVDF or nitrocellulose embedded in a support can be used, but may generate elevated backgrounds. Protein should be transferred from gel to membrane using standard protocols. Blocking buffer can be used for membrane blocking and to dilute both primary and secondary antibodies. Western Blot blocking buffer is suitable for use with fluorescent western blot imaging systems produced by Bio-Rad Laboratories, GE |



Healthcare, Alpha Innotech, FujiFilm Life Science, Licor Biosciences, UVP, Syngene and The BlotCycler™ from Precision Biosystems.

**Application note:**

HiGlo allows for superior signal detection and lower background noise when fluorochrome conjugated antibodies are used to visualize proteins in western blotting and other applications. Antibody conjugates prepared with IRDye® 800 and IRDye® 700DX (Licor), Cy2™, Cy3™, Cy3.5™, Cy5™ and Cy5.5™ (GE Healthcare), DyLight™ 405, DyLight™ 549, DyLight™ 649, DyLight™ 680, and DyLight™ 800 (Thermo Fisher/Pierce) and Alexa Fluor® 488, Alexa Fluor® 532, Alexa Fluor® 546, Alexa Fluor® 647 and Alexa Fluor® 680 (Invitrogen/Molecular Probes) have been validated on various platforms using this product with superior results compared to other commercially available products. In the infrared range, where little to no autofluorescence occurs, specific signal is sharply evident from any background giving the best possible signal-to-noise ratio. This allows for detection levels in the picogram range which rivals the sensitivity of chemiluminescence on film for western blotting. Superior results are also seen when this product is used for simultaneous labeling (multiplex) in western blots or microscopy using various fluorochrome combinations for multicolor imaging. Membranes blocked with this product can be dried and are very stable. Membranes that are stored protected from light can be re-washed and/or rescanned.

**Storage:**

Store vial at 4° C prior to opening. Do not freeze.

**Expiration:**

Expiration date is six (6) months from date of opening

