

Product information

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NBT/BCIP Stain Kit

Catalog #: PW032
Size: 5 preps
Storage: 2~8°C*

*: Product will be shipped at ambient temperature. Check storage conditions.

Product Description:

NBT and BCIP refer to Nitro-Blue-Tetrazolium and 5-bromo-4-chloro-3-indolyl-phosphate respectively. When mixed together, BCIP is hydrolyzed and reacts with NBT, which then react with O₂, forming visible purple precipitates in the presence of AP (alkaline phosphatase). The kit can be used for Western Blot, Dot Blot and In Situ Hybridization.

Storage and Transportation:

Transportation at room temperature. Upon receipt, store Solution A and Solution B at 2-8°C and avoid light. Store Reaction Buffer and Stop Buffer at 2-8°C.

Composition:

Solution A	0.21ml
Solution B	0.51ml
Reaction Buffer	10ml (5X)
Stop Buffer	50ml

Procedures:

1. For western blot experiments, immerse membrane in secondary antibody solution and incubate at 37°C on a rotator for more than 1.5 hours. Wash the membrane with TBST or BPST wash buffer for 5 minutes and repeat the wash step for 3-4 times. Keep the membrane in dark.
2. Before carrying out chromogenic reaction, pipette 8 ml diluted Reaction Buffer, 40 µl Solution A and 100 µl Solution B into a clean 15 ml brown bottle. Vortex to mix.
3. In a dark place, transfer the above 10 ml mixed solution into the container that have the membrane, incubate at 37°C and shake on a rotator for about half an hour, purple insoluble matter will appear on membrane. Avoid from light.
4. Add 10 ml Stop Buffer and vortex for 1 minute, then wash the membrane with DDH₂O for 3-4 times.
5. Take photo in an hour and analyze the result before the color fades away.

Notes:

1. Control colour reaction time in 30 minutes or less. Otherwise high noise-signal ratio may develop.
2. After usage, please tighten the lids of all the solutions. Wear gloves at all times.
3. Recommend to use 6 x 8 cm size membrane. If a larger membrane, please adjust the volume of reagents proportionally to completely immerse the membrane.
4. Solution A and Solution B must be stored at 2-8°C and avoid light. Other reagents can be stored at lower temperature and have one year expiration.
5. The reaction solution must prepared fresh, and left-over working stock must be discarded.



PRODUCTS ARE INTENDED FOR BASIC SCIENTIFIC RESEARCH ONLY.
NOT INTENDED FOR HUMAN OR ANIMAL USE.