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by life technologies

NorthernMax® Low Stringency Wash Buffer

Catalog Number AM8673

Pub. No. 4386617 **Rev.** B

Contents	Quantity	Storage conditions
NorthernMax® Low Stringency Wash Buffer	1 L	Store at room temperature.

WARNING! Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from **www.lifetechnologies.com/support**.

Product description

NorthernMax® Low Stringency Wash Buffer is a proprietary formulation equivalent to 2X SSC or 2X SSPE wash buffers.

Appearance: Clear solution

Use NorthernMax® Wash Buffers to wash Northern membranes

1. Add 20 mL per 100 cm^2 membrane of Low Stringency Wash Buffer at room temperature to the bag or tube.
2. Agitate for 5 minutes, remove and discard solution, then repeat.
   This serves to remove hybridization solution and free probe.
3. Preheat 40 mL of High Stringency Wash Buffer per 100 cm^2 membrane to the hybridization temperature indicated in the table following this procedure.
4. Using half of the wash buffer, wash the blot at the hybridization temperature for 15 minutes, with agitation.
5. Discard this solution, replace with the remaining half of the preheated Wash Buffer, and wash again for 15 minutes.
6. If a radiolabeled probe was used, remove the blots from the final wash and wrap them in plastic wrap or sheet protectors to prevent them from drying out.

   The blots may now be exposed to film for autoradiography.

   Note: Do not allow the blots to dry; you will be unable to strip the blot for subsequent use.

Discard radioactive material in accordance to federal, state, and local laws.

Pre-hybridization and hybridization temperature by probe type

Probe type	Prehyb/hyb temp
DNA probes larger than ~50 bp [1]	42°C
RNA probes larger than ~50 bases	68°C
Oligonucleotide probes up to ~50 bases[2]	37°C to 42C°

[1] DNA probes prepared by random-primed labeling will be on average about half the size of the template used in the labeling reaction.
[2] Use a 37°C hybridization temperature initially, and raise the temperature if cross-hybridization is seen.

Quality control

Nonspecific endonuclease activity: A sample is incubated with supercoiled plasmid DNA and analyzed by agarose gel electrophoresis.

Exonuclease activity: A sample is incubated with labeled double-stranded DNA, followed by PAGE analysis.

RNase activity: A sample is incubated with labeled RNA and analyzed by PAGE.

Functional Testing: NorthernMax® Low Stringency Wash Buffer is functionally tested using the Ambion® NorthernMax® Kit (Cat no. AM1940)

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at **www.lifetechnologies.com/termsandconditions**. If you have any questions, please contact Life Technologies at **www.lifetechnologies.com/support**.

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