

MOPS Buffer

Product	Con.	Cat#	Size
MOPS Buffer	10X	IBS-BM003	1 L

Components : MOPS 200mM, Sodium acetate 50mM, EDTA 10mM, EGTA 10mM, pH 7.0

Storage Conditions : Room Temperature

Stable for a minimum of 1 year from date of receipt at room temperature protected from light. The buffer will turn yellow with age if it is exposed to light or is autoclaved.

Introduction : 10X MOPS (RNase-free) is specially designed to be used as the electrophoresis and running buffer during the separation of RNA on denaturing formaldehyde/agarose gels. RNA is usually single stranded and can fold upon itself to form strong and stable secondary structures, which is problematic when separating RNA on a gel. For this reason the RNA must be denatured prior to electrophoresis. MOPS gel electrophoresis employs the MOPS buffer as a running buffer to separate RNA molecules in an agarose gel. 10X MOPS (RNase-free) is a ready-to-use buffer that has been certified to be RNase-free. 1X MOPS buffer is the most commonly used buffer for RNA electrophoresis in denaturing formaldehyde - agarose gels. Formaldehyde-agarose gels are used for separation of RNA prior to membrane transfer for Northern blot analysis. Dilution of the 10X MOPS buffer produces a 1X MOPS running buffer containing 20 mM MOPS, 5 mM sodium acetate, 1 mM EDTA and 1 mM EGTA. The 1X MOPS buffer is used both in the agarose gel and as a running buffer. Applied voltages of less than 5 V/cm (distance between the electrodes of the unit) are recommended for maximum resolution.

Ready-to-use RNA electrophoresis buffer

- * Convenient, ready-to-use solution for electrophoresis
- * High purity; free from contaminants including nucleases
- * Manufactured under strict quality controls for reliability and consistency
- * Save time and standardize gel runs