

## Product Information

### 10X MOPS Electrophoresis Buffer

Catalogue Number: GBMP01/01F

## General Information

10X MOPS Electrophoresis Buffer, specially formulated for RNA electrophoresis in agarose gels, is a concentrated solution optimized for use at a 1X working concentration. This high-quality buffer enhances efficiency and consistency in RNA separation protocols, reducing preparation time.

MOPS (3-(N-morpholino)propane sulfonic acid) is a zwitterionic buffering agent with minimal metal binding, making it ideal for a range of biological applications. With a pKa of 7.20, MOPS maintains stability at near-neutral pH, essential for sensitive RNA samples. This buffer's composition is precisely adjusted to promote RNA integrity, providing a reliable, high-purity solution with nuclease-free MOPS.

## Product Specification

Appearance	: Clear, colorless solution
pH	: 7.00 – 7.05
Storage & Shelf Life	: Store at +15°C to +25°C and use within 6 months
Shipping Conditions	: Ambient
DNase/RNase	: Not detected

## Formulation

Components	Concentration g/L
MOPS	41.852
Sodium Acetate	4.101
Disodium EDTA	3.722

## Instructions for Use

### Prepare 1x solutions from 10x concentrates:

To prepare an acceptable final 1x solution, perform the following procedure under aseptic conditions. The pH of 10x balanced salt solutions is adjusted for solubility; therefore, you may need to adjust the pH after the dilution.

1. Aseptically dilute 100 ml of 10x concentrate with approximately 850 ml of cell culture grade water. Water temperature should be +15°C to +30°C. Do not heat water. Mix completely.
2. Adjust the pH as necessary with 1 N HCl or 1 N NaOH to pH 7.2 – 7.6.
3. Adjust the final volume with cell culture-grade water.
4. Dispense the solution into sterile containers. Cap the bottles tightly with sterile closures and store them at +15°C to +25°C.
5. Alternatively, the solution may be sterilized by filtering the solution using a 0.22-micron filter. A peristaltic pump or an inert gas such as nitrogen can be used to provide positive pressure at 3 to 15 psi. Do not use CO<sub>2</sub> gas. The sterile filtered solution should be dispensed aseptically into sterile containers. Store buffer solution at +15°C to +25°C.

**For research use only.**

## Need help?

If you have any further queries, please feel free to email our cell culture specialists at [info@genexisbiotech.com](mailto:info@genexisbiotech.com)

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