

0.2M MOPS, pH 7.0

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
0.2M MOPS Solution	ML031-100ML	100 ml
	ML031-500ML	500 ml

Introduction:

MOPS is a zwitterionic buffer which was developed by Good et al., 1966. It is structurally analogous to MES and its metal binding capacity is negligible. As the pK_a value of MOPS is 7.20 it is an excellent buffer for many biological systems at near-neutral pH.

Description:

MOPS is a morpholino propanesulfonic acid, a structural analog to MES, the ethanesulfonic acid (first introduced by Good et al.) Both series of buffers were developed to meet the following criteria: midrange pK_a, maximum water solubility and minimum solubility in all other solvents, minimal salt effects, minimal change in pK_a with temperature chemically and enzymatically stable, minimal absorption in visible or UV spectral range, and reasonably easily synthesized. pK_a=7.2 at 25°C.

Application:

MOPS is extensively used as a buffering agent in molecular biology and biochemistry. It has been tested and recommended for use in polyacrylamide gel electrophoresis. MOPS can be used in many bioanalytical methods like isoelectric focusing, protein assays and in X-ray crystallographic studies. MOPS can also used as an electrophoresis buffer for agarose gel electrophoresis of RNA.

Composition:

0.2M MOPS Solution is composed of extra pure molecular biology grade MOPS and aseptically filtered.

Properties:

Appearance	: Colorless solution
Clarity	: Clear and free of particles
pH	: 6.9 – 7.1
DNase	: None detected
Sterility	: No bacterial or fungal growth is observed after 14 days of incubation as per USP specifications.
Suitability Test	: This reagent has been tested and is suitable for use in various molecular biology assays.

Please refer disclaimer Overleaf.

Registered Office

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Storage conditions:

0.2M MOPS Solution has to be stored at 15 - 25°C. Under recommended condition, the reagent is stable for 12 months.

Warning and Precautions

Not for Medicinal Use. Read the SDS carefully before beginning the protocol. Wear protective gloves/protective clothing/eye protection/face protection. Follow good clinical laboratory practices while handling clinical samples. Standard precautions should be followed as per established guidelines. Safety guidelines may be referred in safety data sheets of the product.

Performance and Evaluation

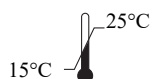
Performance of the solution is expected when the solution is stored at recommended temperature and within the expiry period.

Safety Information

The 0.2M MOPS Solution is for laboratory use only, not for drug, household or other uses. Take appropriate laboratory safety measures and wear gloves and safety goggles when handling. Not compatible with disinfecting agents containing bleach. Please refer the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

Technical Assistance

At HiMedia we pride ourselves on the quality and availability of our technical support. For any kind of technical assistance, mail at mb@himedialabs.com.



Storage temperature



Do not use if package is damaged



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