

MOPS Buffer (10x)

(Cat# C8047; ready-to-use buffer; store at RT)

Introduction

MOPS (3-(N-morpholino) propanesulfonic acid) a structural analog to MES, is frequently used as a buffering agent in biology and biochemistry, primarily used as a running buffer for denaturing gel electrophoresis.

ABS_Bio™ ready-to-use MOPS Buffer (10x) is formulated 200 mM MOPS, pH 7.0, 50 mM Sodium Acetate and 10 mM EDTA in DEPC-treated H₂O. The buffer is intended for use at 1x as the electrophoresis and gel running buffer during the separation of RNA on denaturing formaldehyde/agarose gel electrophoresis. DNase-, RNase-, phosphatases and Protease-Free.

Kit Components

MOPS Buffer (10x): 500 mL Multiple size are available: 1000-2000 mL

Storage and Handling: Store all of the components at RT. Shelf Life: 12 months after receipt.

Features for All of Solution & Buffers

Formulated from analytical grade chemicals.

Ideal for standardizing laboratory work.

Ready to use in minutes.

Each stage of the manufacturing process is controlled and monitored by stringent quality control procedures to guarantee the highest possible quality and lot-to-lot reproducibility.

Applications

- Molecular Biology and Biochemistry applications: RNA isolation and electrophoresis.

Protocol

The buffer is filtered with 0.22 µm filter in sterile condition and it is ready to use. No pH adjustment is required.

1. For agarose gel electrophoresis, 10x MOPS Buffer should be diluted to a working concentration of 1x running buffer with DEPC-treated H₂O.
2. For the preparation 100 mL of 1% agarose gel, melt 1g agarose in 72 mL DEPC-treated H₂O, then add 10 mL of 10x MOPS Buffer; when the agarose solution cools to 60 °C, add 18 mL of 37% formaldehyde using a fume hood to respective final concentrations of 1x MOPS and 2.2 M formaldehyde; pour the gel.

Related Products:

TMB substrate solution(#C8010)	ELISA Blocking Buffer(5x 25mL; #C8002)
ELISA Washing Buffer(20x, 25mL; #C8003)	Antibody Dilution Buffer(#C8004)
Protein Loading Buffer(6x ; #C8005)	SDS-PAGE Running Buffer(10x ; #C8006)
Phosphate Buffered Saline (10x PBS, #C8007)	Phosphate Buffered Saline with Tween 20(10x PBS-T; #C8008)
Phosphate Buffered Saline(1xDPBS, #C8012)	PAGE-gel transfer buffer(10x, #C8014)
TAE Buffer(10x, #C8015)	TBE Buffer(10x, #C8016)
RIPA Buffer(#C8017)	Cell Lysis Buffer(#C8019)
TE Buffer(#C8020)	DNA Loading Buffer(#C8021)
TBST Buffer(#C8024)	TBST Blocking Buffer(#C8025)
Tris-Buffer(1 M pH 7.5, #C8027)	Tris-Buffer(1 M pH 8.0, #C8026)
HEPES Buffer(1 M pH 7.4, #C8028)	Ammonium Sulfate Solution(4M, #8043)