

10X RNA Gel Buffer (10X MOPS Buffer)

Catalog #: 351-059-101 500mL (amber)
Store at: 15°C to 30°C in dark
Shipped at: ambient temperature

Description

Quality Biological's (QBI) 10X RNA Gel Buffer (10X MOPS Buffer) is prepared from molecular biology grade MOPS (3-[N-Morpholino] propanesulfonic acid) disodium dihydrate salt using Quality Biological's Molecular Biology Grade (MBG) Water. The final product is passed through a 0.2µm filter.

Applications

- RNA Gel Electrophoresis³
- Northern Blot Analysis⁴

Quality Control

General

All Quality Biological products for Molecular Biology are prepared according to standard published protocols.^{1,2}

All products are subjected to a variety of quality control procedures, including pH and osmolality determinations in order to validate the product is within its specifications.

Product Specific Testing

10X RNA Gel Buffer is routinely tested for the absence of DNase and RNase activity.

The test results of individual lots of 1M Potassium Chloride are available on the Quality Biological website.

Directions

For Denaturing Gel Electrophoresis (with formaldehyde)

Using all the precautions necessary when working with RNA, add the following items to an RNase-free container in order to prepare 100mL of 1X MOPS solution:

- 10mL RNA Gel Buffer (10X) (Cat # 351-059-101)
- 18.0mL formaldehyde
- 72.0mL DEPC Water (Cat # 351-068-721)
- Total Volume: 100mL

For Native Gel Electrophoresis

Using all the precautions necessary when working with RNA, add the following items to an RNase-free container in order to prepare 100mL of 1X MOPS solution:

- 10mL RNA Gel Buffer (10X) (Cat # 351-059-102)
- 90mL DEPC Water (Cat # 351-068-721)
- Total volume: 100mL

References

1. Sambrook, J., Fritsch, E.F. & Maniatis, T. (1989) *Molecular Cloning, A Laboratory Manual*, 2nd Ed. Cold Spring Harbor Laboratory Press.
2. Ausubel, F.M. et al., eds. (1993), *Current Protocols in Molecular Biology*, Greene Publishing Associates, Inc., in association with John Wiley & Sons, Inc.
3. Miller, K. (1985) Life Technologies, Inc., *BRL's FOCUS*, 9(3), 14
4. Davis, L.G., Dibner, M.D., & Battey, J.F. (1986), *Basic Methods in Molecular Biology*, Elsevier Science Publishing Company, Inc.

Related Products

10X RNA Gel Loading Solution

Catalog #	351-081-661EA	10mL
	351-081-661	Pack of 5 x 100mL

DEPC Treated Water

Catalog #	351-065-721EA	100mL
	351-068-721	Pack of 4 x 100mL
	351-068-131	1000mL
	351-068-131CS	10 x 1000mL
	351-068-491	4 Liters
	351-068-151	10 Liters
	351-068-161	20 Liters

Molecular Biology Grade Water

Catalog #	351-029-721EA	100mL
	351-029-721	Pack of 4 x 100mL
	351-029-101	500mL
	351-029-101CS	10 x 500mL
	351-029-131	1000mL
	351-029-131CS	10 x 1000mL
	351-029-491	4 Liters
	351-029-151	10 Liters
	351-068-161	20 Liters

All products sold by Quality Biological are intended for research use only. This product has not been approved for diagnostic or IVD use.