

SDS Protein Gel Loading Solution (2X)

Catalog #: 351-082-661EA 10mL
351-082-661 5 x 10mL

Store at: 15°C to 30°C
Shipped at: ambient temperature

Note: Quality Biological's formulation does not contain 2-mercaptoethanol or dithiothreitol.

Description

Quality Biological's (QBI) SDS Protein Gel Loading Solution (2X) is prepared from molecular biology grade Tris base[tris(hydroxymethyl)aminomethane], SDS (sodium dodecyl sulfate), bromphenol (bromophenol) blue, and glycerol using Quality Biological's Molecular Biology Grade (MBG) Water. The final product is sterile filtered through a 0.22µL filter membrane.

Applications

- *SDS-PAGE*³
- *Western Blot Analysis*³

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.

The test results of individual lots of SDS Protein Gel Loading Solution (2X) are available on the Quality Biological website.

Directions

For SDS-PAGE (denaturing gel electrophoresis with SDS)

1. Using all the precautions necessary when working with proteins, add the following items to a protease free microcentrifuge tube:
 - 5-10µL sample
 - **OPTIONAL:** 2-Mercaptoethanol {BME} to a final concentration of 5% **OR** Dithiothreitol [DTT] to a final concentration of 5mM
 - 10µL SDS Protein Gel Loading Solution
 - Total Volume: 20µL

NOTE:

- For complex mixtures, use 50µg total protein per lane
 - For purified proteins, use 0.5-5µg total protein per lane
2. Heat the samples at 100°C for 2-5 minutes
 3. Immediately chill the samples on ice for 2-3 minutes
 4. Collect samples with a 20 second spin in a microcentrifuge
 5. Load the samples into the lanes (wells) of a polyacrylamide gel
 6. Run the gel according to the specifications provided by the electrophoresis equipment manufacturer

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) *BRL FOCUS*, 9(3), Life Technologies, Inc.
4. Davis, L.G., Dibner, M.D., & Battey, J.F. (1986), *Basic Methods in Molecular Biology*, Elsevier Science Publishing Company, Inc.

Related Products

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.