

## 5× SDS-PAGE Sample Loading Buffer

**Catalogue number:** MB11701, 5 × 1 mL

**Description:** 5× SDS-PAGE Sample Loading Buffer is a convenient and ready-to-use loading buffer for SDS-polyacrylamide gel electrophoresis (SDS-PAGE). Formulated in a 5× stock, it enables a greater range of protein sample volumes to be used for electrophoresis. The buffer contains bromophenol blue dye to mark the front of the gel.

### Protocol:

1. Mix one volume of 5× SDS-PAGE Sample Loading Buffer with four volumes of protein sample (e.g., 5 µL 5× SDS-PAGE Sample Loading Buffer + 20 µL protein sample).
2. Boil sample for 3-5 minutes.
3. Spin-down and cool sample to room temperature.

4. Load sample onto gel and perform the electrophoresis.

5. Stop electrophoresis when blue dye nears bottom of gel.

6. Remove gel from electrophoresis unit. To stain gel, wash, fix and stain according to usual procedures. To transfer proteins and tracking dye to nitrocellulose membrane, equilibrate the gel in transfer buffer and proceed with usual methods.

**Storage conditions:** 5× SDS-PAGE Sample Loading Buffer can be stored at room temperature or at 4 °C for up to 12 months. For longer periods, store at -20 °C.

**Shipping conditions:** Room temperature.

**Product life:** Three years

### Quality control assay:

#### Functional assay

To check the viscosity and the pattern of the dye, 1 volume of 5× SDS-PAGE Sample Loading Buffer and 4 volumes of a protein sample are loaded onto a Tris-glycine SDS-PAGE.

V1901

### Certificate of Analysis

Assay	Result
Functional assay	Pass

Approved by:



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