6X SDS Protein Loading Buffer

Catalog # LB0100

25 mL

Morganville Scientific

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Description:

6X SDS Protein Loading Buffer (Laemmli buffer) is used for the preparation of protein samples for SDS-polyacrylamide gel electrophoresis (SDS-PAGE). After the addition of the reducing agent β-mercaptoethanol (or DTT), the protein loading buffer will contain all of the necessary components for complete disruption of high-order protein structures.

6X Protein Loading Buffer is ideal because the protein sample prepared in 6X buffer will be more concentrated than protein sample prepared in 4X or 2X buffer (*i.e.* more protein and less loading buffer per well).

Buffer Composition:

375 mM Tris.HCl, pH 6.8
9% SDS
50% Glycerol
0.03% Bromophenol blue

Concentration: 6X

Contents: 25 mL

Storage: Ambient Temperature

Instructions for Use:

1. Mix well and dissolve any precipitates in the sample loading buffer by incubating at 37°C.
2. Add 9 µL β-mercaptoethanol to 91 µL 6X SDS Protein Loading Buffer and mix well. Make a 1:5 dilution of 6X SDS protein loading buffer (containing the reducing agent) to protein sample. For example, add 1 µL 6X SDS protein loading buffer to 5 µL protein sample.
3. Heat prepared protein sample at 100°C for 5 minutes.
4. Briefly centrifuge heated sample and load into SDS polyacrylamide gel.

note: β-mercaptoethanol rapidly oxidizes in protein loading buffer. Fresh 6X protein loading buffer should be prepared every time.