



**Gene to Protein Pvt. Ltd.**

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## Protein loading dye 5X (For SDS-PAGE)

**Cat # BUF23-5**

**Pack Size: 1mlx5**

**Concentration: 5X**



### **Introduction:**

This sample buffer is designed for the preparation and loading of protein samples onto SDS-PAGE gels. The 5X concentration enables the efficient dilution of samples, allowing for the loading of more proteins per well.

### **Composition:**

Typical components may include SDS (Sodium dodecyl sulfate), glycerol, a tracking dye (such as bromophenol blue), and a reducing agent (such as DTT or  $\beta$ -mercaptoethanol). Exact concentrations is proprietary.

### **Applications:**

- Denaturation and loading of protein samples for SDS-PAGE.
- Compatible with most protein electrophoresis systems.

### **Directions for Use:**

- Dilute the sample in a 1:4 ratio with Protein Loading Dye 5X (e.g., mix 4 parts sample with 1 part buffer).
- Heat the sample to 95-100°C for 5-10 minutes to denature the proteins.
- Cool the sample to room temperature.
- Load the sample onto the SDS-PAGE gel wells.

### **Storage Conditions:**

Store at room temperature.

### **Safety Considerations:**

Include warnings and precautions related to the handling and disposal of SDS and other potentially hazardous components.

### **Quality Control:**

Specifications and quality assurance details as applicable.

