

## SDS-PAGE Loading Buffer (2X)

Catalog #	Source	Reactivity	Applications
CRG1126			SDS-PAGE
<b>Description</b>	SDS-PAGE Loading Buffer (2X) is an improved, bromophenol blue-based, 2X concentrated protein loading buffer. It is suitable for routine SDS-PAGE protein sample loading.		
<b>Directions for Use</b>	<ol style="list-style-type: none"><li>1. Dissolve the SDS-PAGE Loading Buffer (2X) at room temperature or in a water bath not exceeding 37°C. Once dissolved, store immediately at room temperature and avoid prolonged exposure to the water bath.</li><li>2. Mix the protein sample with the SDS-PAGE Loading Buffer (2X) at a ratio of 1 microliter of buffer per 1 microliter of protein sample.</li><li>3. Heat at 100°C or in a boiling water bath for 3-5 minutes to fully denature the proteins. If the initial amount cells or tissue used is substantial and the genomic DNA content is high, the mixture may remain viscous or contain semi-transparent viscous substances even after boiling for 3-5 minutes. In such cases, extend the boiling time by an additional 5-10 minutes, or add an appropriate amount of diluted 1X loading buffer and boil again for 3-5 minutes. Thorough boiling helps release proteins bound to genomic DNA and partially fragments the genomic DNA, eliminating viscosity and preventing interference with subsequent loading steps.</li><li>4. After cooling to room temperature, load the sample directly into the wells of the SDS-PAGE gel.</li><li>5. Typically, electrophoresis can be stopped when the blue dye reaches near the bottom of the gel.</li></ol>		
<b>Precautions for Use</b>	<ol style="list-style-type: none"><li>1. SDS-PAGE Loading Buffer (2X) contains a small amount of DTT, which may produce a slight irritating odor, but does not contain highly toxic <math>\beta</math>-mercaptoethanol.</li><li>2. SDS-PAGE Loading Buffer (2X) must be fully dissolved before use.</li><li>3. This product is intended for research use by qualified professionals only. It is not</li></ol>		

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# Product Data Sheet

for use in clinical diagnosis or treatment, nor for food or drug purposes, and must not be stored in residential areas.

4. For your safety and health, please wear a lab coat and disposable gloves during operation.

## Storage

Store at -20°C for one year.

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