

2X Laemmli Buffer

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
2X Laemmli Buffer	ML021-5X6ML ML021-10X6ML	5X6 ml 10X6 ml

Introduction: 2X Laemmli Buffer is specifically used for protein sample preparation prior to loading on SDS-PAGE. It is added to each protein sample at 1:1 ratio and boiled for 1-5 min. The use of Laemmli sample buffer ensures optimal band resolution when preparing proteins for SDS-PAGE with Tris-glycine-SDS running buffer.

Description: 2X Laemmli Buffer is used as a protein sample loading buffer for use in SDS-PAGE and Western Blotting. This buffer contains bromophenol blue (BPB), SDS, glycerol and Tris-HCl. The Bromophenol blue serves as an indicator dye visually facilitating loading of samples into the wells of the gel. It also functions as a migration dye helping to monitor the dye front that runs ahead of the proteins. Glycerol in the Laemmli Buffer increases the density of the sample so that it will fall to the bottom of the well, minimizing puffing or loss of protein sample in the buffer, and results in convenient layering of the samples into the wells. The SDS detergent binds to the positive charges occurring on the proteins at a regular interval, thus giving each protein the same overall negative charge. Hence the proteins will separate based on size and not by charge. The SDS also denatures the proteins and subunits to help them separate on basis of their size, irrespective of shape.

Application: 2X Laemmli Buffer is specifically used for protein sample loading during SDS-PAGE. This buffer is mixed with the protein sample, heated and loaded on the gel.

Composition: 2X Laemmli Buffer is made from highly pure molecular biology grade bromophenol blue, SDS, glycerol and conveniently premixed to save time. It is supplied as ready to use solution.

Storage conditions: The 2X Laemmli Buffer is to be stored at room temperature and after dilution should be stored at -20°C.

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ML021-01

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