

# Protein Sample Loading Buffers

## Description:

Nepenthe provides ready-to-use Laemmli loading buffers for the preparation of protein samples for SDS-polyacrylamide gel electrophoresis. Choose from reducing or non-reducing buffers; each contains an indicator dye, to enable visualization of the progress of electrophoresis by observing migration of the dye front. All loading buffers are compatible with downstream Coomassie and silver staining and Western blotting applications. Fluorescent non-reducing protein sample loading buffer is ideal for fluorescent Western blotting applications that require minimal background in the Cy5 or IR700 channels.

- **CONVENIENT** – Pre-mixed; just add your protein sample, boil and load
- **QUALITY CONTROLLED** – Obtain reproducible results with standardized buffers
- **FLEXIBILITY** – Choose from reducing or non-reducing loading buffers
- **ODORLESS** – Reduce your proteins without an irritating stench

## Dilute Protein Samples:

- 2X Protein sample loading buffer: Dilute 1 part sample with 1 part 2X Protein sample loading buffer.
- 4X Protein sample loading buffer: Dilute 3 parts sample with 1 part 4X Protein sample loading buffer.

If needed, add reducing agent to non-reducing protein sample loading buffers:

- For 2X Protein sample loading buffer: Add 50 µl of 2-mercaptoethanol per 950 µl (final concentration of 355 mM).
- For 4X Protein sample loading buffer: Add 100 µl of 2-mercaptoethanol per 900 µl (final concentration of 355 mM).
- Alternatively, add dithiothreitol (DTT or TCEP) to a final 1X working concentration of 50 mM

**Note:** For best results, store sample buffer with reducing agent at -20°C and avoid multiple freeze/thaw cycles.

## For non-Reducing Buffer Orders:

Catalog Number	Product	Size
NB050301805	2X Protein Loading Buffer	5 ml
NB050301810	2X Protein Loading Buffer	10 ml
NB050301820	2X Protein Loading Buffer	20 ml
NB050314705	4X Protein Loading Buffer	5 ml
NB050314710	4X Protein Loading Buffer	10 ml
NB050314720	4X Protein Loading Buffer	20 ml
NB050314805	4X Red Fluorescent Protein Loading Buffer	5 ml
NB050314810	4X Red Fluorescent Protein Loading Buffer	10 ml
NB050314820	4X Red Fluorescent Protein Loading Buffer	20 ml

## For Reducing Buffer Orders:

Catalog Number	Product	Size
NB050301905	2X Protein Loading Buffer	5 ml
NB050301910	2X Protein Loading Buffer	10 ml
NB050301920	2X Protein Loading Buffer	20 ml
NB050314605	2X Oderless Protein Loading Buffer	5 ml
NB050314610	2X Oderless Protein Loading Buffer	10 ml
NB050314620	2X Oderless Protein Loading Buffer	20 ml