

Short Protocol, continued

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



For More Information

visit <http://advansta.com/products/protein-sample-loading-buffers> or go directly to the web-page by scanning the QR-code with your favorite bar-code scanner app on your smart phone.

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Protein sample loading buffers for SDS gels

Pre-mixed loading buffers for polyacrylamide electrophoresis

For Catalog Numbers

Non-reducing protein sample loading buffer (2x)

R-03018-B10 (1 ml), **R-03018-B50** (5 ml)

Reducing protein sample loading buffer (2x)

R-03019-B10 (1 ml), **R-03019-B50** (5 ml)

Odorless Reducing protein sample loading buffer (2x)

R-03146-B10 (1 ml), **R-03146-B50** (5 ml)

Non-reducing protein sample loading buffer (4x)

R-03147-B10 (1 ml), **R-03147-B50** (5 ml),

SpectraDye™ fluorescent non-reducing protein sample loading buffer (4x)

R-03148-B10 (1 ml), **R-03148-B50** (5 ml)



Protein sample loading buffers

Description

Avansta's protein sample loading buffers are based on the method of Laemmli (1970). The use of Laemmli sample buffers ensures optimal band resolution when preparing proteins for SDS-PAGE with Tris-glycine-SDS running buffer.

Reference: Laemmli UK (1970). Cleavage of structural proteins during the assembly of the head of bacteriophage T4, *Nature* 227, 680–685.

Contents

- 1mL Protein sample loading buffer
- Or 5 X 1mL Protein sample loading buffer

Additional Materials Required

- SDS-PAGE gel
- Tris-Glycine-SDS running buffer
- Reducing agent
- Electrophoresis tank & power source
- Heat block

Storage Information

- Non-reducing protein sample loading buffers are stable for at least 2 years when stored properly at room temperature
- Reducing protein sample loading buffers are stable for at least 1 year when stored unopened at -20°C

Warnings and Precautions

- Protein sample loading buffers are for research use only.
- Always wear gloves when handling reagents.
- Refer to SDS for additional safety information.
- This product is guaranteed to be free of manufacturer defects, and to function as described when the enclosed protocol is followed by properly trained personnel.

Short Protocol

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

- 2X Protein sample loading buffer: Add 50 µl of 2-mercaptoethanol per 950 µl (final concentration of 355 mM).
- 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.

