

4X LDS Sample Buffer

Cat. No.: M00676-10/M00676-250

Version 08072017

Description

4X LDS Sample Buffer is used to prepare protein samples for denaturing polyacrylamide gel electrophoresis (PAGE) with SurePAGE™, ExpressPlus™ and most other types of Bis-Tris gels. LDS sample buffer contains lithium dodecyl sulfate with pH at 8.4, which helps reducing the disulfide bonds and ensure optimal protein separation.

Note: 4X LDS Sample Buffer is a highly viscous solution due to high concentration of LDS and glycerol. The buffer should be brought to room temperature (25°C) and mix well prior to use.

General Specifications

Buffer Type:	4X LDS Sample Buffer
Form:	Liquid
Product Size:	10 ml/250ml
Gel Compatibility:	ExpressPlus™, SurePAGE™, Most Bis-Tris PAGE Gels
Concentration(1X):	141 mM Tris Base, 106 mM Tris HCl, 2% LDS, 10% Glycerol, 0.51mM EDTA, 0.22 mM SERVA Blue G-250, 0.175mM Phenol Red

Preparing Samples

Follow the Instructions below to prepare samples for denaturing gel.

Reagent	Reduced Sample	Non-reduced Sample
Sample	x µl	x µl
4X LDS Sample Buffer	2.5 µl	2.5 µl
Reducing Agent 10x (500mM DTT or 25% β-ME)	1 µl	-
Deionized Water	Up to 6.5 µl	Up to 7.5 µl
Total Volume	10µl	10µl

Either β-ME or DTT can be used in the 4X LDS Sample Buffer. Make sure that a fresh solution of β-ME or DTT is used.
For best results, please add the reducing agent immediately prior to electrophoresis.

Storage

4°C for 6 months

Not for use in diagnostic procedures.

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