

DTT Solution (1 M)

(Cat# C8013; ready-to-use solution, store at -20°C)

Introduction

Dithiothreitol (DTT) is a commonly used reducing agent, used to stabilize enzymes and other proteins which possess free sulfhydryl groups. At a final 0.1 M concentration, DTT is also widely used for disruption of protein disulfide bonds in SDS-polyacrylamide gel electrophoresis. DTT is less pungent and less toxic than 2-mercaptoethanol.

ABSbio™ ready-to-use DTT Solution is provided in 1 M concentration. Free of endo-, exodeoxyribonucleases, Human DNA, ribonucleases, and phosphatases. The product was passed a 0.22 micron filter.

Kit Components

DTT Solution(1 M): 5x1 mL Multiple size available: 10-50 mL

Storage and Handling: Shipped on ice. Store at -20°C. Shelf Life: 6 months after receipt.

Features for All of Buffers

Formulated from analytical grade chemicals.

Ideal for standardizing laboratory work.

Ready to use in minutes.

Applications

Enzyme stabilization

Enzymatic reactions

Protein electrophoresis

Protocol

SDS-PAGE gel

1. Add one volume of 6x protein loading buffer to five volumes of protein solution.
2. Fresh add 1M DTT to a final concentration of 100 mM.
3. Vortex the tube to mix the contents. Heating sample tubes at 95°C for 5 minutes.
4. After the boiling is complete, vortex and centrifuge the tube for 30 seconds. The sample is now ready for loading on SDS-PAGE gels.

Related Products:

TMB substrate solution(#C8010)

ELISA Washing Buffer(20x, 25mL; #C8003)

Protein Loading Buffer(2x, 6x ; #C8005)

Phosphate Buffered Saline (10x PBS, #C8007)

Phosphate Buffered Saline(1xPBS, #C8009)

RIPA Buffer(#C8017)

Quick Protein Staining Solution (500 mL, #C8099)

ELISA Blocking Buffer(5x 25mL; #C8002)

Antibody Dilution Buffer(#C8004)

SDS-PAGE Running Buffer(10x ; #C8006)

Phosphate Buffered Saline with Tween 20(10x PBS-T; #C8008)

PAGE-gel transfer buffer(10x, #C8014)

Stripping Buffer(#C8012)

Complete Bacterial Protein Extraction Reagent (#C8089-100)