

СБОРНЫЕ ГЕЛИ И БУФЕРЫ



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Introduction

The mPAGE™ Bis-Tris SDS-PAGE Gel system offers high performance, optimal electrophoretic separation, and better resolution over a wide range of molecular weights. The Bis-Tris SDS-PAGE system helps preserve protein integrity and extends the shelf life of the mPAGE™ Bis-Tris Precast Gel. mPAGE™ Bis-Tris Precast Gels have a versatile design that allows for larger sample loading volumes. The 10 cm x 8 cm mini cassette format makes mPAGE™ Bis-Tris Precast Gels compatible with most popular gel electrophoresis equipment.

mPAGE™ Bis-Tris Precast Gels are designed to work exclusively with MOPS or MES running buffer. Depending on which running buffer is used, very distinct separation patterns can be achieved. MOPS buffer can be used to fine tune the separation of large and medium-sized proteins, whereas MES buffer provides optimal separation of smaller proteins. Refer to the migration charts (Figure 1) to determine which gel running buffer system is best suited for the intended separation range.

The mPAGE™ Bis-Tris Precast SDS-PAGE Gel System includes a specially formulated transfer buffer optimized for transferring proteins from mPAGE™ Bis-Tris Precast Gels to PVDF or nitrocellulose blotting membranes.

Components of the mPAGE™ Bis-Tris SDS-PAGE Precast Gel System

mPAGE™ Bis-Tris Precast Gels

mPAGE™ Bis-Tris Precast Gels are available as 4-12%, 4-20%, and 8-16% gradients and 8%, 10%, and 12% homogeneous compositions. mPAGE™ Bis-Tris Precast Gels are provided as 10-well, 12-well, and 15-well formats, allowing for sample volumes of 80, 60, and 40 µl, respectively.

mPAGE™ 4X LDS Sample Buffer

mPAGE™ 4X LDS Sample Buffer is formulated to complement mPAGE™ Bis-Tris Precast Gels and running buffer systems. The combination will achieve optimal band resolution and sharpness without causing sample degradation. The sample buffer is used for sample preparation prior to denaturing polyacrylamide gel electrophoresis. mPAGE™ 4X LDS Sample Buffer contains lithium dodecyl sulfate (LDS) at pH 8.4, to ensure optimal protein separation. Reduction of disulfide bonds can be performed at 70 °C using dithiothreitol (DTT) or β-mercaptoethanol (BME).

mPAGE™ MES SDS or MOPS SDS Running Buffer Powder

Running buffers are optimized for use with the mPAGE™ Bis-Tris Precast Gels. Ready to dissolve premeasured reagent packets make buffer preparation quick and easy. Each packet makes 1L of 1X buffer when dissolved in deionized water.

mPAGE™ Transfer Buffer Powder

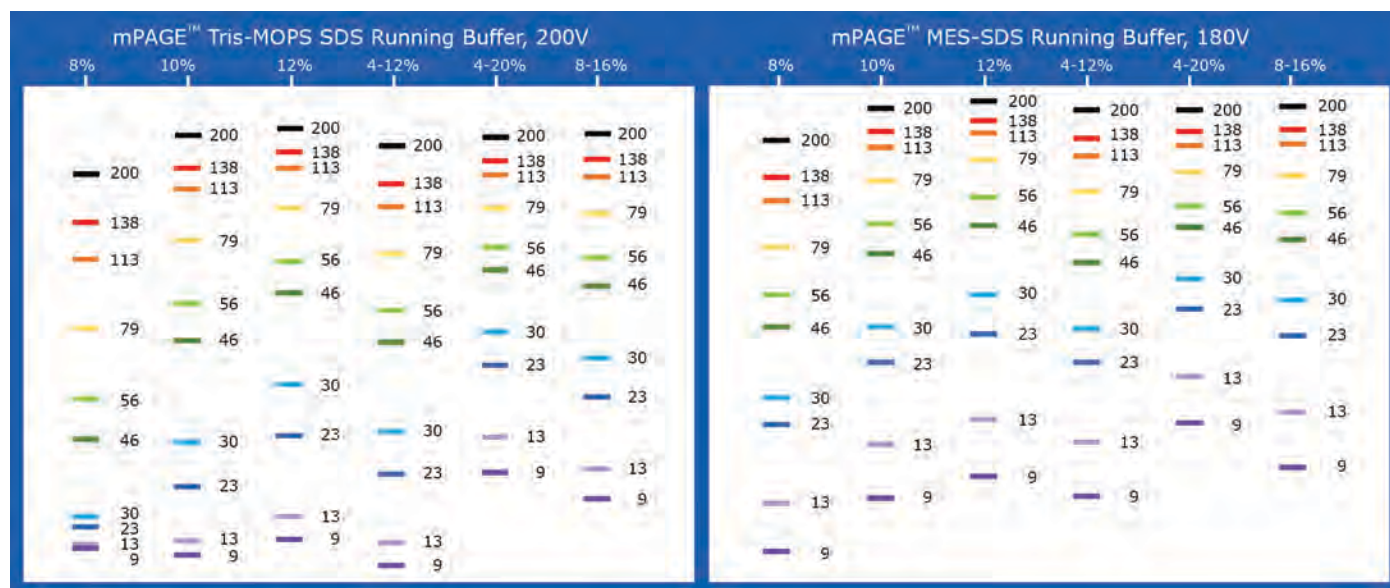
mPAGE™ Transfer Buffer is formulated for best transfer efficiency of proteins from mPAGE™ Bis-Tris Precast Gels to PVDF or nitrocellulose blotting membranes. The transfer buffer is provided as an easy to dissolve powder in premeasured packets. Upon reconstitution with 10% methanol, each packet yields 1L of 1X mPAGE™ Transfer Buffer. Review semi dry transfer section for preparation of semi dry transfer buffers.

Storage and Stability

mPAGE™ gels feature an extended shelf-life of up to 12 months from the date of manufacture when stored at 2–8 °C.

Protein Separation using mPAGE™ Bis-Tris Precast Gels

Figure 1. Migration Charts with Unstained Protein Standard



Buffer Formulations

Table 4. mPAGE™ 4X LDS Sample Buffer

Reagent	Amount
Tris-HCl	0.666 g
Tris-Base	0.682 g
Lithium dodecyl sulfate (LDS)	0.800 g
EDTA	0.006 g
Glycerol	4 g
Coomassie® Brilliant Blue G250 (1% solution)	0.75 ml
Phenol Red (1% solution)	0.25 ml
Deionized water	To 10 ml

Store at 2–8 °C.

The pH of the 1X solution is 8.5. Do not adjust the pH with acid or base.

Table 5. mPAGE™ MES SDS Running Buffer

Reagent	Amount
Tris-Base	6.06 g
MES	9.76 g
SDS	1.0 g
EDTA	0.3 g
Deionized water	1000 mL

Table 6. MOPS SDS Running Buffer

Reagent	Amount
Tris-Base	6.06 g
MOPS	10.46 g
SDS	1.0 g
EDTA	0.3 g
Deionized water	1000 mL

Table 7. mPAGE™ 1X Transfer Buffer pH 8.2 for Wet Transfer protocol

Reagent concentration	Amount
25 mL Tris base	3.0 g
25 mM Bicine	4.08 g
10% Methanol	100 mL
Deionized water	900 mL

Table 8. mPAGE™ Transfer Buffer (with Methanol) pH 8.2 for Semi Dry Transfer protocol

Reagent	Amount
50 mM Tris Base	3.0 g
50 mM Bicine	4.08 g
Methanol	50 mL
Deionized water	450 mL

Table 9. mPAGE™ Gel Equilibration Buffer pH 8.2 for Semi Dry Transfer Protocol

Reagent	Amount
50 mM Tris Base	3.0 g
50 mM Bicine	4.08 g
Deionized water	500 mL

Product Ordering

mPAGE™ Bis-Tris Precast Gels for SDS-PAGE and Western Blotting

Description	Qty / Pk	Catalogue Number
mPAGE™ 4-12% Bis-Tris Precast Gel, 10x8, 10-well	10 gels	MP41G10
mPAGE™ 4-12% Bis-Tris Precast Gel, 10x8, 12-well	10 gels	MP41G12
mPAGE™ 4-12% Bis-Tris Precast Gel, 10x8, 15-well	10 gels	MP41G15
mPAGE™ 4-20% Bis-Tris Precast Gel, 10x8, 10-well	10 gels	MP42G10
mPAGE™ 4-20% Bis-Tris Precast Gel, 10x8, 12-well	10 gels	MP42G12
mPAGE™ 4-20% Bis-Tris Precast Gel, 10x8, 15-well	10 gels	MP42G15
mPAGE™ 8-16% Bis-Tris Precast Gel, 10x8, 10-well	10 gels	MP81G10
mPAGE™ 8-16% Bis-Tris Precast Gel, 10x8, 12-well	10 gels	MP81G12
mPAGE™ 8-16% Bis-Tris Precast Gel, 10x8, 15-well	10 gels	MP81G15
mPAGE™ 8% Bis-Tris Precast Gel, 10x8, 10-well	10 gels	MP8W10
mPAGE™ 8% Bis-Tris Precast Gel, 10x8, 12-well	10 gels	MP8W12
mPAGE™ 8% Bis-Tris Precast Gel, 10x8, 15-well	10 gels	MP8W15
mPAGE™ 10% Bis-Tris Precast Gel, 10x8, 10-well	10 gels	MP10W10
mPAGE™ 10% Bis-Tris Precast Gel, 10x8, 12-well	10 gels	MP10W12
mPAGE™ 10% Bis-Tris Precast Gel, 10x8, 15-well	10 gels	MP10W15
mPAGE™ 12% Bis-Tris Precast Gel, 10x8, 10-well	10 gels	MP12W10
mPAGE™ 12% Bis-Tris Precast Gel, 10x8, 12-well	10 gels	MP12W12
mPAGE™ 12% Bis-Tris Precast Gel, 10x8, 15-well	10 gels	MP12W15

mPAGE™ Reagents for SDS-PAGE and Western Blotting

Description	Qty / Pk	Catalogue Number
mPAGE™ 4X LDS Sample Buffer	10 mL	MPSB-10ML
mPAGE™ 4X LDS Sample Buffer	250 mL	MPSB-250ML
mPAGE™ MES SDS Running Buffer Powder (Each packet makes 1L)	5 packets	MPMES
mPAGE™ MOPS SDS Running Buffer Powder (Each packet makes 1L)	5 packets	MPM0PS
mPAGE™ Transfer Buffer Powder (Each packet makes 1L)	10 packets	MPTRB
mPAGE™ Western Protein Standard	250 µL	MPSTD2

mPAGE™ Trial Kits for SDS-PAGE and Western Blotting

Description	Qty / Pk	Catalogue Number
mPAGE™ Trial Kit, 4-12%, 12-well, MOPS	2 gels, 1 x 1L Running Buffer Powder, mPAGE™ Adapter Plates, mPAGE™ Cassette Opener	MP41G12TR1
mPAGE™ Trial Kit, 4-12%, 12-well, MES	2 gels, 1 x 1L Running Buffer Powder, mPAGE™ Adapter Plates, mPAGE™ Cassette Opener	MP41G12TR2
mPAGE™ Trial Kit, 4-20%, 12-well, MOPS	2 gels, 1 x 1L Running Buffer Powder, mPAGE™ Adapter Plates, mPAGE™ Cassette Opener	MP42G12TR1
mPAGE™ Trial Kit, 10%, 12-well, MES	2 gels, 1 x 1L Running Buffer Powder, mPAGE™ Adapter Plates, mPAGE™ Cassette Opener	MP10W12TR2
mPAGE™ Trial Kit, 10%, 12-well, MOPS	2 gels, 1 x 1L Running Buffer Powder, mPAGE™ Adapter Plates, mPAGE™ Cassette Opener	MP10W12TR1
mPAGE™ Trial Kit, 12%, 12-well, MES	2 gels, 1 x 1L Running Buffer Powder, mPAGE™ Adapter Plates, mPAGE™ Cassette Opener	MP12W12TR2



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