

Buffer Solutions

In the gel and in the tank, the purity and strength of buffers determine not only the electrical parameters of electrophoresis but also the structure and solubility of the biomolecules under study. Buffer quality is as important for electrophoresis results as the gel matrix itself. Produced to the most exacting standards in the industry, National Diagnostics' buffers are stable and pure. They eliminate weighing and mixing, save time, and help ensure reproducible results.



- Stringent Quality Control
- 18 Megohm Water
- 0.2 Micron Filtration
- Save Money
- Save Time
- Improve Results

PROTEIN ELECTROPHORESIS AND BLOTTING BUFFERS

Tris-Glycine-SDS PAGE Buffer (10X)

Tris-Glycine-SDS-PAGE Buffer (10X) is a concentrated solution of Tris-Glycine-SDS in distilled/deionized water, especially intended for use as the running buffer in SDS-PAGE of proteins. Each bottle of Tris-Glycine-SDS PAGE Buffer (10X) contains 0.25M Tris base, 1.92M glycine, and 1% (w/v) SDS.

Tris-Glycine-SDS PAGE Buffer (10X) EC-870	1 Liter
	4 Liters (1-3)
	4 Liters (4 +)

Tris-Tricine-SDS PAGE Buffer (10X)

This National Diagnostics' SDS-PAGE Buffer (10X) is a concentrated solution of Tris-Tricine-SDS in distilled/deionized water. This buffer is especially intended for use as the running buffer in SDS polyacrylamide gel electrophoresis (PAGE) for resolving the smaller proteins (5kD to 20kD) that cannot be resolved with the traditional Laemmli buffer system.

Tris-Tricine-SDS PAGE Buffer (10X) EC-869	1 Liter
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ProtoGel® Buffers

The use of National Diagnostics' ProtoGel Resolving Buffer and ProtoGel Stacking Buffer will ensure the purity and performance of your Laemmli gels. ProtoGel Resolving Buffer forms gels of .375 M Tris-HCl and 0.1% SDS, pH 8.8. ProtoGel Stacking Buffer forms gels of .125 M Tris-HCl and 0.1% SDS, pH 6.8.

4X ProtoGel Resolving Buffer	EC-892	450 ml
		1 Liter (1-3)
		1 Liter (4 +)
4X ProtoGel Stacking Buffer	EC-893	200 ml

Tris-Glycine Electroblotting Buffer (10X)

Tris-Glycine Electroblotting Buffer (10X) is a concentrated solution in distilled/deionized water. This buffer is the standard tank buffer for Western electroblotting procedures. To prepare 1 liter of working strength buffer, add 100 ml of Tris-Glycine Electroblotting Buffer to 200 ml of methanol and 700 ml of distilled/deionized water. Tris-Glycine Electroblotting Buffer (10X) contains 0.25M Tris base and 1.92M glycine.

Tris-Glycine Electroblotting Buffer(10X) EC-880	1 Liter
	4 Liters (1-3)
	4 Liters (4 +)

Protein Loading Buffer Blue (2X)

National Diagnostics' Protein Loading Buffer Blue (2X) is a ready-to-use buffer solution for the preparation of protein samples to be separated in SDS-polyacrylamide gel electrophoresis (SDS-PAGE). Loading Buffer Blue (2X) contains Bromophenol Blue as a tracking dye to monitor the sample during the electrophoretic run. Loading Buffer Blue (2X) contains 0.5M Tris-HCl (pH 6.8), 4.4% (w/v) SDS, 20% (v/v) glycerol, 2% (v/v) 2-mercaptoethanol, and bromophenol blue in distilled/deionized water.

Protein Loading Buffer Blue (2X) EC-886	10 x 1ml
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PBS (10X) Phosphate Buffered Saline

Produced as a 10X concentrate, National Diagnostics' PBS is a clear, RNase free solution. After dilution to 1X, PBS has the following electrolyte concentrations: 137 mM NaCl; 2.7 mM KCl; 10mM Phosphate Buffer.

PBS (10X)	CL-253	450 ml
		1 Liter
		4 Liters