

## DNA/RNA ELECTROPHORESIS

## TAE Buffer (50X)

TAE Buffer (50X) is a concentrated solution of 2M Tris-Acetate and 100mM Na<sub>2</sub>EDTA in distilled/deionized water (pH 8.3 at 1X concentration). TAE Buffer is used for agarose DNA electrophoresis.

TAE Buffer 50X	EC-872	1 Liter (1-3) 1 Liter (4 +)
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## TBE Buffer (10X or 5X)

National Diagnostics' TBE Buffer is a concentrated buffer solution of Tris-Borate-EDTA in distilled/deionized water. TBE is ready-to-use as a 10X or 5X concentrate. When diluted, the 1X solution contains 0.089M Tris base, 0.089M boric acid (pH 8.3) and 2mM Na<sub>2</sub>EDTA.

TBE Buffer 10X	EC-860	1 Liter 4 Liters (1-3) 4 Liters (4 +)
TBE Buffer 5X	EC-861	1 Liter 4 Liters (1-3) 4 Liters (4 +)

## TTE Glycerol Tolerant Buffer (20X)

National Diagnostics' TTE Glycerol Tolerant Buffer (20X) is a concentrated Tris-Taurine-EDTA buffer solution in distilled/deionized water. TTE (20X) eliminates the band distortion associated with DNA samples in glycerol. National Diagnostics' TTE Glycerol Tolerant Buffer (20X) is supplied in 1 liter bottles, containing 1.78M Tris base, 0.57M Taurine, and 10mM Na<sub>2</sub>EDTA.

TTE Glycerol Tolerant Buffer (20X)	EC-871	1 Liter (1-3) 1 Liter (4 +)
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## Triple Dye Loading Buffer (6X)

With three tracking dyes (Bromophenol Blue, Xylene Cyanole, and Orange G), Triple Dye Loading Buffer (6X) is a non-denaturing loading buffer for native polyacrylamide and agarose gel applications. Triple dye loading buffer contains 50% (w/v) sucrose and 40mM Tris base in distilled, deionized water.

Triple Dye Loading Buffer 6X	EC-855	1.2 ml
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## DNA/RNA BLOTTING

## TE Buffer (100X)

TE Buffer is a 100X concentrated solution of 1M Tris-HCl, pH 8, with 0.1 M Na<sub>2</sub>EDTA. This buffer is the standard for DNA and RNA purification, processing and storage. National Diagnostics' TE buffer is produced to the same exacting standards that have made all our buffers trusted by molecular biologists worldwide.

TE Buffer 100X	EC-862	25 ml
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## Denaturation Solution

National Diagnostics' Denaturation Solution is a ready-to-use buffer solution of sodium chloride and sodium hydroxide in distilled/deionized water. It is especially designed for use in Southern and Northern Blotting, and *in situ* hybridization procedures.

Denaturation Solution contains 1.5M sodium chloride, 0.5M sodium hydroxide.

Denaturation Solution	EC-875	1 Liter (1-3) 1 Liter (4 +)
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## Neutralization Solution

National Diagnostics' Neutralization Solution is a ready-to-use sodium chloride-Tris buffer solution. It is especially designed for use in Southern and Northern Blotting, and *in situ* hybridization procedures.

Neutralization Solution contains 3M NaCl and 0.5M Tris in distilled/deionized water.

Neutralization Solution	EC-876	1 Liter (1-3) 1 Liter (4 +)
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## SSC Buffer (20X)

SSC Buffer (20X) is a concentrated solution of sodium chloride-sodium citrate in distilled/deionized water. SSC Buffer is widely used in nucleic acid blotting and hybridization protocols. SSC Concentrate (20X) is already in solution, which eliminates the weighing, mixing, and adjusting of pH necessary with powdered buffers. The 20X formulation allows for easy dilutions to all needed concentrations. SSC Buffer Concentrate (20X) contains 3M sodium chloride and 0.3M sodium citrate (pH 7.0).

SSC Buffer (20X)	EC-873	1 Liter 4 Liters
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Online:

[www.nationaldiagnostics.com](http://www.nationaldiagnostics.com)