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TECHNICAL INFORMATION

Catalog Number: 194019, 195516, 805613, 805614, 805615
TEMED, electrophoresis grade

Structure:

Molecular Formula: C₆H₁₆N₂

Molecular Weight: 116.2

CAS #: 110-18-9

Synonym: N,N,N',N'-Tetramethylethylenediamine; TMEDA; 1,2-bis(Dimethylamino)ethane

Physical Appearance: Clear colorless to faint yellow liquid

Density: 0.77 ± 0.2 g/ml

Solubility: Easily soluble in water (20 gm/ml-clear-cololess solution)

Description: Catalyst for gel formation in polyacrylamide gel electrophoresis by catalyzing the formation of free radicals from ammonium persulfate or riboflavin. A tertiary amine base.

Typical Use: Suggested use is 6-10 ul for 10 ml acrylamide gel solution (the less amount of TEMED used, the slower the polymerization).

Availability:

Catalog Number	Description	Size
805613	N,N,N',N'-Tetramethylethylenediamine, Electrophoresis grade, purity not less than 99%	5 ml
805614		25 ml
805615		50 ml
194019	N,N,N',N'-Tetramethylethylenediamine, molecular biology reagent, purity approximately 99%	25 ml 50 ml 100 ml
195516	N,N,N',N'-Tetramethylethylenediamine, purity approximately 98%	50 ml 100 ml 500 ml

References:

- Andrews, A.T., Electrophoresis: Theory, Techniques, and Biochemical and Clinical Applications, **2nd Ed.**, New York, 21-24 (1988).
- Ogden, R.C. and Adams, D.A., "Electrophoresis in agarose and acrylamide gels." *Meth. Enzymol.*, **v.152**, 61-87 (1987).