

# TEMED

Cat# C1012 – 30ml

Storage at 4°C

## INTRODUCTION

**TEMED** is a tertiary amine that is used to catalyze the formation of free radicals from ammonium persulfate or riboflavin. Such **TEMED** generated free radicals cause the compounds acrylamide and bis-acrylamide to polymerize and form the gel matrix polyacrylamide. Polyacrylamide gels are commonly used for the electrophoretic resolution of macromolecules such as nucleic acids and proteins. Because **TEMED** is functional only in its free base form, low pH conditions will inhibit polymerization. The potential contribution of **TEMED** to elevated background in silver stained SDS-PAGE has been studied. **TEMED** has been used in the coating of soft polymers, such as polyacrylamide, in capillaries for investigation by atomic force microscopy. Microchips containing oligonucleotides and proteins immobilized within gel pads have been prepared using **TEMED**. The capillary isoelectric focusing of proteins with an isoelectric point (pI) > 12 has been investigated through the use of **TEMED**. **TEMED** has been used in the HPLC of small organic molecules.

## INFORMATION

N,N,N',N'-Tetramethylethylenediamine

Chemical Formula: C<sub>6</sub>H<sub>16</sub>N<sub>2</sub>

Molecular Weight: 116.2

Assay: 99.9% min.

pH: 8.0

Working Conc.: 0.05%

## PRODUCT USE LIMITATION

These products are intended for research use only.