

### ★ Storage

Store at RT

The working solution is stable at RT for up to 1 week.

### ★ Contents

- Product manual
- Ammonium Persulfate Tablet, 150mg

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### ★ Introduction

Ammonium Persulfate (APS) is an oxidizing agent that is used with TEMED to catalyze the polymerization of acrylamide and bisacrylamide to prepare polyacrylamide gels for electrophoresis.

Ammonium persulfate is very hygroscopic. This property is particularly important, since ammonium persulfate begins to break down almost immediately when dissolved in water. Therefore, the accumulation of water in ammonium persulfate results in a rapid loss of reactivity. This is why ammonium persulfate solutions should be prepared fresh daily.

### ★ Preparing Working Solution, 20% Solution

Each 150 mg tablet is dissolved in 0.73 ml of distilled water to form a working solution which is stable at room temperature for 1 week.

1. To prepare the working solution for polymerization of Laemmli gels, add one Ammonium Persulfate Tablet, 150mg to 0.73 ml of distilled water.
2. Mix until the tablet is completely dissolved.
3. Use 25 ul of the working solution to polymerize each 10 ml of the gel solution.  
(Final concentration is 0.05%)

**Note :** Do not add the Ammonium Persulfate Tablet directly to acrylamide solutions. Polymerization will occur only around the tablet and result in incomplete polymerization.

**Note :** Temperature affects the properties of the gel. For example, polymerization at 2-16° C results in turbid, porous, inelastic gels, and reproducibility is difficult to achieve. Gels polymerized at 23-25° C are more transparent, less porous, and more elastic. A temperature of 23-25° C is optimal for polymerization.

### ★ Related Product

Product Name	Cat No
TEMED	T0512
Ammonium Persulfate Tablets, 100mg	A7053
Albumin, (IgG, Fattu Acid and Protease Free)	A0100
Affiselect Cox IV Loading Control Antibody	A0017
Affiselect GAPDH Loading Control Antibody, 100ug	A0039
Affiselect Beta-Actin Loading Control Antibody, 100ug	A0042
Affiselect a-Tubulin Loading Control Antibody, 100ug	A0050
NP-40 Lysis Buffer (2X)	N1200
Affiselect Total Protein Extraction Solution	A0710
RIPA Cell Lysis Buffer (1X) with EDTA	R4100
Xert PhosphataseInhibitor Cocktail Solution (100X)	P3200
Xpert Prestained Protein Marker (6.5-240 kDa)	P8502
Xpert 2 Prestained Protein Marker (10-240 kDa)	P8503
Goat anti-Mouse IgG(H+L)-HRP, 1mg/ml	SA001
Goat anti-Rabbit IgG(H+L)-HRP,200ug/0.5ml	SA002
Rabbit anti-Goat IgG(H+L)-HRP,200ug/0.5ml	SA007
West-Q Pico Dura ECL Solution	W3653
West-Q Femto ECL Solution	W3700