

APS/TEMED Polymerization Tablets

<u>Code</u>	<u>Description</u>	<u>Size</u>
N310-100TAB	APS/TEMED Polymerization Tablets	100 Tablets

General Information:

Ammonium Persulfate (APS) and TEMED catalyze the polymerization of acrylamide solutions into gel matrices. These gels are then used to separate a variety of macromolecules by size in the presence of an electric field. Optimal polymerization requires the daily preparation of fresh APS stock solution since APS is unstable in aqueous solution. AMRESKO's pre-measured APS/TEMED Polymerization Tablets provide an ultra-convenient way to prepare a combined stock solution of APS and TEMED that completely eliminates the need for frequent weighing of APS. The stock solution remains stable at room temperature for one week. The tablets offer constant ratios of APS and TEMED to ensure consistent polymerization and reproducible results from gel to gel.

Working Stock Solution:

NEXT GEL[®]: Each 125 mg tablet is dissolved in 1 ml of distilled water to form a working solution which is stable at room temperature for 1 week.

Laemmli Gel: Each 125 mg tablet is dissolved in 0.5 ml of distilled water to form a working solution which is stable at room temperature for 1 week.

Storage/Stability:

The APS/TEMED tablets are moisture sensitive and should be stored in a desiccator at 4° C. The working solution is stable at room temperature for up to 1 week.

Application Disclaimer

*For Research Use Only.
Not for Therapeutic or Diagnostic Use.*

Protocol:**NEXT GEL[®]**

1. To prepare the working solution for use with NEXT GEL[®] products, add one APS/TEMED Polymerization Tablet to 1.0 ml of distilled water.
2. Mix by vortexing until the tablet is completely dissolved.
3. Add 150 – 180 µl of the working solution to polymerize each 10 ml of the NEXT GEL[™] acrylamide solution. Mix immediately to assure complete polymerization.
4. Immediately pour gel according to standard procedures.
5. Polymerization should occur within approximately 30 minutes.

Laemmli Gels

1. To prepare the working solution for polymerization of Laemmli gels, add one APS/TEMED Polymerization Tablet to 0.5 ml of distilled water.
2. Mix until the tablet is completely dissolved.
3. Add 120 – 160 µl of the working solution to polymerize each 10 ml of the Laemmli acrylamide solution. Mix immediately to assure complete polymerization.
4. Immediately pour gel according to standard procedures.
5. Polymerization should occur within approximately 30 minutes.

Note: Do not add the APS/TEMED Polymerization Tablets directly to acrylamide solutions. Polymerization will occur only around the tablet and result in incomplete polymerization.

Related Products**Protein Gel Electrophoresis**

<u>Code</u>	<u>Product</u>
M256-100ML	NEXT GEL [®] 10%: Premixed Acrylamide Solution and Running Buffer for SDS-PAGE
M260-5.0ML	NEXT GEL [®] Sample Loading Buffer, 4X
0254-500ML	Acryl/Bis [™] 37.5:1, 40% Solution (W/V)
0783-4L	Tris-Glycine-SDS Buffer, Liquid Concentrate, 10X
J383-200UL	Precise [™] Protein Molecular Weight Marker, 7 bands, 15.0-150.0 kDa
K217-1L	Blue BANDit [™] Protein Stain
M227-1L-KIT	Silver-BULLit [™] Staining Kit

Nucleic Acid Electrophoresis

<u>Code</u>	<u>Product</u>
0496-500ML	Acryl/Bis [™] 19:1, 40% Solution (W/V)
0311-500ML	Acryl/Bis [™] 29:1, 40% Solution (W/V)

0658-4L

Tris-Borate-EDTA (TBE) Buffer,
10X Liquid Concentrate**References:**

1. Andrews, A.T. Electrophoresis: Theory, Techniques, and Biochemical and Clinical Applications 2nd ed., New York, (1988), 21-24.
2. Ogden, R.C. and Adams, D.A. Electrophoresis in agarose and acrylamide gel. Methods Enzymol., 152, 61-87 (1987)

ZY0386 Rev. 5/8/12 ©Copyright 2006, 2007, 2008 by AMRESCO Inc. All Rights Reserved. AMRESCO[®] is a registered trademark of AMRESCO Inc. NEXT GEL[™], Acryl/Bis[™], Precise[™]BANDit[™], Silver-BULLit[™] are registered trademarks of AMRESCO Inc.

**Corporate Headquarters**

AMRESCO LLC
6681 Cochran Road
Solon, OH 44139-0098 USA

Tel: (440) 349-1199
Toll free: 1-800-448-4442 (US & Canada)
Fax: (440) 349-2441
e-mail: info@amresco-inc.com

To Order (USA & Canada)

Toll free: 1-800-829-2805
Toll free fax: 1-800-326-3733
Fax: (440) 349-3255
e-mail: dom-sales@amresco-inc.com

International Orders:

Tel: (440) 349-1199
Fax: (440) 349-2441
e-mail: int-sales@amresco-inc.com

Technical Support

Toll free: 1-800-610-2789 (USA & Canada)
e-mail: techinquiry@amresco-inc.com

www.amresco-inc.com
www.amresco-inc.com