ALTER CHEM

BIOTECHNOLOGY AND INNOVATION FOR HUMAN NEEDS

TABLE TO PREPARE STACKING GELS FOR SDS-PAGE

Description	Catalog No	Reagents to prepare 10 ml working solution	Final concentration
30% Acrylamide/Bis Solution (37.5:1), **GOLD**	**A00020**	1.333 ml	4.0 %
0.5 M Tris-HCl, pH 6.8 - Stacking Gel Buffer	**T00006**	2.5 ml	125 mM
Distilled H_2O		6.007 ml	
Mix thoroughly (*), then add			
10% SDS Solution	**S00002**	100 **µl**	0.1 %
10% Ammonium Persulfate	**G00001**	50 **µl**	0.05 %
TEMED		10 **µl**	0.1 %
Mix the working solution by gentle swirling. Cast the gel, allow to polymerize for 30 min.			

(*) Deaeration of the solution at this point optimizes the polymerization of the gel and increases the repeatability of the results.

!! ENVIRONMENTAL PROTECTION NOTICE !!

In order to minimize the release of acrylamide to the environment, please polymerize any unused amount of monomer solution (acrylamide/bisacrylamide) according to the above table and the common practice. Let the solution to polymerize for one hour or more. Discard the formed gel.

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TABLE TO PREPARE SEPARATING GELS FOR SDS-PAGE

Acrylamide concentration in the gel		7.5%	10.0%	12.5%	15.0%	20.0%	
Description	Catalog No	Reagents to prepare 20.0 ml working solution					Final concentration
30% Acrylamide/Bis Solution (37.5:1), **GOLD**	**A00020**	5.0 ml	6.667 ml	8.334 ml	10.0 ml	13.334 ml	(appears at the top line)
1.5 M Tris-HCl, pH 8.8 - Resolving Gel Buffer	**T00005**	5.0 ml	5.0 ml	5.0 ml	5.0 ml	5.0 ml	0.375 M
Distilled H_2O		9.690 ml	8.023 ml	6.356 ml	4.690 ml	1.356 ml	
Mix thoroughly (*)***, then add***							
10% SDS Solution	**S00002**	200 **µl**	200 **µl**	200 **µl**	200 **µl**	200 **µl**	0.1 %
10% Ammonium Persulfate	**G00001**	100 **µl**	100 **µl**	100 **µl**	100 **µl**	100 **µl**	0.05%
TEMED		10 **µl**	10 **µl**	10 **µl**	10 **µl**	10 **µl**	0.05%
Mix the solution by gentle swirling. ***Cast the gel, allow to polymerize for one hour.***							

(*) Deaeration of the solution at this point optimizes the polymerization of the gel and increases the repeatability of the results.

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In order to minimize the release of acrylamide to the environment, please polymerize any unused amount of monomer solution (acrylamide/bisacrylamide) according to the above table and the common practice. Let the solution to polymerize for one hour or more. Discard the formed gel.

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