

Acrylamide-Bis Solution

Product	Con.	Cat#	Size
Acrylamide-Bis Solution	40%, 19:1	IBS-BA003	500 ml
	40%, 29:1	IBS-BA003-1	500 ml
	30%, 29:1	IBS-BA004	500 ml
	30%, 19:1	IBS-BA004-1	500 ml
	40%, 37.5:1	IBS-BA005	500 ml
	30%, 37.5:1	IBS-BA005-1	500 ml
	40%, 15.5:1	IBS-BA027	500 ml

Components : Acrylamide-Bis-Acrylamide Solution (w/v)

Storage Conditions : Cold

Laboratory use : Polyacrylamide was first used in a laboratory setting in the early 1950s. In 1959, two independent groups published papers on the use of polyacrylamide gel electrophoresis to separate charged molecules. The technique is widely accepted today, and is still an extremely common protocol in molecular biology labs. Acrylamide also has many other uses in the modern molecular biology laboratory, including the use of linear polyacrylamide (LPA) as a carrier which aids in the precipitation of small amounts of DNA. Many laboratory supply companies sell LPA as a commercial product for just this use.

Calculations : Use these calculations to determine the volumes of stock acrylamide and bis-acrylamide solutions necessary to produce gels of any percent and volume.

Protocols for 30% Acrylamide/Bis Solutions, 29:1

	Stacking Gel		Resolving Gel		
	4%	7.5%	12%	X%	
30% Acrylamide/Bis	3.3ml	25ml	40ml	3.3(X%)=(A)* ml	
0.5M Tris-HCl, pH6.8 .	6.25ml	-	-	-	
1.5M Tris-HCl, pH8.8	-	25ml	25ml	25ml	
10% SDS	250ul	1.0ml	1.0ml	1.0ml	
D.W.	15ml	48.5ml	33.5ml	73.5 - (A)ml	
TEMED	25ul	50ul	50ul	50ul	
10% APS	125ul	500ul	500ul	500ul	
Total volume	25ml	100ml	100ml	100ml	