

Acrylamide:bis-Acrylamide Solution

Catalogue Number: See table below

Description: Polyacrylamide is a commonly used matrix for electrophoretic separation of nucleic acids and proteins. Polyacrylamide gels are prepared by free radical dependent co-polymerization of acrylamide and a cross-linker such as N, N-methylene-bis-acrylamide (Bis). The acrylamide to cross-linker ratio determines the pore size of the gel, which in turn determines the size range of molecules that can be separated (e.g. proteins are generally separated using ratios ranging from 29:1 to 37.5:1 whereas the a ratio of 19:1 is commonly used for DNA sequencing gels or separation of peptides).

Reliable electrophoretic experimental results demand high purity reagents with low levels of contaminants. Impurities may impair homogeneity and reproducibility of gel polymerization. Moreover, charged impurities may exert a major effect on electrophoretic separation. MACGENE's pre-mixed acrylamide solutions are prepared from ultrapure molecular biology grade reagents ensuring uniform polymerization upon addition of ammonium persulfate and N, N, N, N - tetramethylethylenediamine (TEMED).

For greater convenience and safety, MACGENE offers ready-to-use premixed, pre-filtered acrylamide/bis-acrylamide stock solutions manufactured from the highest quality materials and available at the most common ratios for use in protein and nucleic acid electrophoresis. The concentration is based on the total weight of both the acrylamide and bis-acrylamide. Ready-to-use acrylamide solutions eliminate the risks associated with the handling of acrylamide powder. The solutions are packaged in UV-proof plastic bottles. Compared to acrylamide and bis-acrylamide powders, the liquid formulation produces gels with high reproducibility, excellent band mobility and resolution when used together with our electrophoresis buffer systems (Cat.: MP007 for protein electrophoresis; Cat.: MP016 for nucleic acid electrophoresis) and eliminates inhalation hazards associated with handling powders.

Application: Used for preparation of protein and nucleic acid electrophoresis gel

37.5:1	for the separation of high molecular weight proteins
29:1	for sequencing gels and the separation of proteins
19:1	optimal for sequencing gels and also for the separation of peptides

Storage: 4°C

Pack Size: 250mL/500mL

Catalogue Number	Fomulation Acrylamide/bis-acrylamide	Concentration (w/v)	Composition (w/v)	
			Acrylamide	bis-acrylamide
MP018	37.5:1	30%	30%	0.8%
MP024	29:1	40%	38.67%	1.33%
MP025	19:1	40%	38%	2%

FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC AND THERAPEUTIC PROCEDURES



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