

AMRESCO Product Offering

Product Line: Liquid Acrylamide Products
Product Codes: 0132 0496 E339
 0832 0311 E344
 0254 E347



Benefits and Features:

Safety. Liquid Acrylamide products replace powdered materials with convenient solutions. These products eliminate inhalation hazards associated with handling Acrylamide and bis-Acrylamide powders. The product line includes Acrylamide and bis-Acrylamide concentrates as well as 30% and 40% solutions in standard ratios of monomer to crosslinker. See the reverse of this bulletin for solution preparation guidelines.

Quality. AMRESCO Liquid Acrylamides are prepared from Ultra Pure Grade components in deionized water. Our manufacturing process is unique to the industry and yields a low conductivity solution with controlled concentration and monomer/crosslinker ratio. AMRESCO microfilters each solution to eliminate physical barriers to the gelation process.

Consistency. AMRESCO Liquid Acrylamides are rigorously tested. We have optimized both analytical and performance parameters that are confirmed with each lot manufactured. Additionally, the solutions are verified to be free of nuclease and protease contamination. These requirements combine to ensure highly reproducible gels with excellent band mobility and resolution.

This entire product line is guaranteed stable for at least two years when properly stored.

The Liquid AMRESCO Acrylamide offering:

Product	Code	Concentration (w/v)
Concentrate stock solutions		
Acryl-40™	0132	40.0% Acrylamide
Bis-2™	0832	2.0% bis-Acrylamide
Standard ratios in a 40% concentrate:		
Acryl/Bis™ 19:1 Solution	0496	38.0% Acrylamide/2.0% bis-Acryl
Acryl/Bis™ 29:1 Solution	0311	38.67% Acrylamide/1.33 bis-Acryl
Acryl/Bis™ 37.5:1 Solution (Or 30:0.8 Solution)	0254	38.96% Acrylamide/1.04% bis-Acryl
Standard ratios in a 30% concentrate:		
Acryl/Bis™ 19:1 Solution	E339	28.5% Acrylamide/1.5% bis-Acryl
Acryl/Bis™ 29:1 Solution	E344	29.0% Acrylamide/1.0% bis-Acryl
Acryl/Bis™ 37.5:1 Solution (Or 30:0.8 Solution)	E347	29.22% Acrylamide/0.779% bis-Acryl

Please see reverse for more ordering and technical information



Solution preparations with AMRESCO ACRYL-40™ and BIS-2™ Concentrates:

Purchase these solutions if a variable and/or custom concentration and ratio is needed

First, determine the Monomer and Crosslinker Content:

Monomer Content (MC): Desired ratio of acrylamide in a solution, expressed as a decimal.

Crosslinker Content (CC): Desired ratio of bis-acrylamide in a solution, expressed as a decimal.

These factors are used to calculate the needed volumes

$$MC = \frac{\text{Parts Monomer}}{\text{Parts Monomer} + \text{Parts Crosslinker}}$$

$$CC = \frac{\text{Parts Crosslinker}}{\text{Parts Monomer} + \text{Parts Crosslinker}}$$

Typical MC and CC and recommended applications:

Acylamide Ratio	Monomer Content (MC)	Crosslinker Content (CC)	Recommended Applications
19:1 Separations	0.950	0.050	DNA Sequencing, Nucleic Acid
29:1	0.966	0.033	Nucleic Acid and Protein Separations
37.5:1	0.974	0.026	Protein Separations

Second, determine the volume in milliliters of ACRYL-40™ and BIS-2™ needed

$$\text{ml ACRYL-40 needed} = \frac{(\text{MC}) \times (\text{Final gel concentration}) \times (\text{Final gel volume})}{40\%}$$

$$\text{ml BIS-2 needed} = \frac{(\text{CC}) \times (\text{Final gel concentration}) \times (\text{Final gel volume})}{2\%}$$

Solution Preparations with ACRYL/BIS concentrate blends

Purchase these solutions when standard ratios are needed

Determine ml of ACRYL/BIS™ solutions needed

$$\text{ml ACRYL/BIS needed} = \frac{(\text{Final gel concentration}) \times (\text{Final gel volume})}{30 \text{ or } 40\%}$$

* Depending upon the concentration of the stock solution. Codes 0496, 0311 and 0254 are 40%, while Codes E339, E344 and E347 are 30%

Once the volume of Acryl-40 and Bis-2 concentrates **or** ACRYL/BIS concentrates is determined, prepare the gel solutions according to specific needs (i.e., including running buffer, urea, etc)

AMRESCO has a complete line of products for you electrophoresis and sequencing needs.

Please inquire about the following related products:

All-Gone™ Glass Plate Kit	K533	Page Plus™	E562
Urea	0568	PAGE Premixes of various acryl/bis contents with urea and TBE/TTE; <i>Ready-to-use</i>	
Ammonium Persulfate	0486	EZ-Squeeze™ Gene-PAGE and Gene-PAGE Plus Premixes; <i>No TEMED/APS!</i>	
TEMED	0761		

We also offer a full line of gel and running buffers, loading dyes, markers, stains, and destaining products