

# Product Specifications



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## 20% ACRYLAMIDE-UREA SOLUTION

Product Number

IB70012

Size

1L

CAS NO.

CAS#

N/A

### PHYSICAL SPECIFICATIONS

Appearance	Clear
Solution Components	2M Acrylamide 0.048M Bis-Acrylamide 0.089M Tris 0.089M Boric Acid 0.002M EDTA 7M Urea
DNase assay	None Detected
RNase assay	None Detected
Protease assay	None Detected

### STORAGE

Store at +4°C. Keep tightly sealed.

### RECOMMENDED USE

Our 20% Acrylamide-Urea Solution in TBE buffer is made with a 19:1 acrylamide to bis-acrylamide ratio. This solution provides a "Ready-To-Pour" product for PAGE gels used in numerous applications such as:

- DNA and RNA analysis: Can analyze restriction enzyme digests, PCR products, Southern analysis and Primer analysis.
- Nucleic Acid Sequence Analysis: Can resolve short single-stranded DNA or RNA fragments that differ in length by as little as one nucleotide.
- Other electrophoretic separations: Can separate different forms of a tRNA based on changes in charge, conformation or bulk.

### GEL INSTRUCTIONS

To make a gel, complete the following steps:

- Prepare Complete PAGE Mix in the following ratios: Mix 1mL 15% Acrylamide-Urea Solution with 5µL 10% ammonium persulfate solution. Add 1.25µL TEMED last, as it initiates polymerization.
- Pour the mixture quickly (within a few minutes) to ensure the gels are poured homogeneously.
- Wait for the gel to fully polymerize. This can take 15-60 minutes depending on room conditions.
  - Make a couple extra mL of the PAGE Mix to leave in the mixing tube. This can be used as an indicator for when the gel is fully polymerized and ready to use.

### WARNING

**Classification:** Acute Toxicity (Oral) - 4  
Acute Toxicity (Inhalation) - 4  
Eye Irritant - 2  
Skin Sensitization - 1  
Germ Cell Mutagenicity - 1B  
Carcinogenicity - 1B  
Toxic to Reproduction - 1B  
Specific target organ toxicity (Single exposure) - 1

**Hazard Statements:** H301-Toxic if swallowed • H317-May cause an allergic skin reaction • H319-Causes serious eye irritation • H332-Harmful if inhaled • H340-May cause genetic defects • H350-May cause cancer • H361-Suspected of damaging fertility or the unborn child • H372-Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements:** P301+P310-IF SWALLOWED: Immediately call a POISON center of doctor/physician • P308+P313-If exposed or concerned: Get medical advice/attention • P280-Wear protective gloves/protective clothing/eye protection/face protection • P302+P352-IF ON SKIN: Wash with plenty of soap and water • P304+P340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing • P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing



**DANGER!**

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