

>Acrylamide, 40% solution

Acrylamide (prop-2-enamide), 40% (w/v) solution

| cat. no. | amount | note |
|------------|--------|----------------------------------|
| STS-AC 500 | 500ml | Filtered; Electrophoresis-grade. |

Acrylamide is used in gel-electrophoresis in combination with Bisacrylamide and SDS (SDS-PAGE) to separate charged molecules. Acrylamide alone forms linear polymers, whreas Bisacrylamide introduces crosslinks between polyacrylamide chains. The 'pore size' is determined by the ratio of Acrylamide to Bisacrylamide (usually 30 : 0.8 for protein separation) and by the concentration of Acrylamide. A high ratio of Bisacrylamide to Acrylamide and a high Acrylamide concentration cause low electrophoretic mobility. Polymerization of Acrylamide and Bisacrylamide monomers is induced by ammonium persulfate (APS), which spontaneously decomposes to form free radicals. TEMED, a free radical stabilizer, is generally included to promote polymerization.

Formulation C_3H_5NO

Molecular weight 71.08

Solubility Soluble in water, ethanol, ether and chloroform.

Storage

Store at 4°C. Keep tightly sealed. If high resolution is required (such as sequencing), fresh solution (less than 2 months) should be used.