

## Instant HEPES Buffer

Catalog Number: EXBR049



For Research Use Only. Not Intended for Diagnostic or Therapeutic Use.

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### Product Description

Instant HEPES Buffer simplifies preparation of 2-[4-(2-hydroxyethyl)piperazin-1-yl] ethanesulfonic acid (HEPES) buffer with easy to dissolve powder granules to prepare a 1 Liter, 1X working solution. It does not require additional calculations or pH adjustments to help reduce errors and maintain consistent buffer preparation.

The 1X solution is 50 mM Tris, 50 mM HEPES, 2 mM EDTA and 0.1% SDS (pH 7.7±0.2 at 25°C) . HEPES is a commonly used buffer for protein analysis, biochemistry applications, DNA/RNA extraction, and PCR.

Available sizes: 10 Pack or 50 Pack.

### Limitations

- For Research Use Only. Not Intended for Diagnostic or Therapeutic Use.

### Precautions

- Always wear appropriate protective clothing and follow safe laboratory procedures.

### Storage

Store unopened packs at 10-30°C for up to 36 months.

### Preparation of Reagents

1. Transfer instant powder granules from 1 packet of Instant HEPES Buffer to a beaker.
2. Pre-dissolve the granules by slowly adding 500 mL distilled or deionized water to the beaker, allowing the 1-5 minutes for the granules to completely dissolve while gently stirring with a stirring rod or magnetic stir bar.
3. Transfer the dissolved solution to a volumetric flask and bring up the volume to 1000 mL by adding distilled or deionized water, which is a 1X working solution.