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Product Information

Barbital Buffer

Product Number **B 5934**
Store at Room Temperature

Product Description

Barbital Buffer is a general purpose electrophoresis buffer for separation of serum proteins, lipoproteins, and isoenzymes such as lactate dehydrogenase and creatine kinase. The buffer provides excellent resolution of these proteins on either agarose gels or cellulose acetate membranes.

This product contains sodium barbital (0.05 mole) and barbital (0.01 mole) and when reconstituted with water produces a solution with a pH of approximately 8.6 at 25 °C.

Precautions and Disclaimer

Barbital Buffer is for R&D use only, not for *in vitro* diagnostic, drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

For Agarose Gels:

Dissolve the contents of 1 vial of Barbital Buffer in 900 ml of deionized water. When completely dissolved, adjust the volume to 1,000 ml with water. The pH should be 8.6 at 25 °C.

For Cellulose Acetate Membranes:

Dissolve the contents of 1 vial of Barbital Buffer in 600 ml of deionized water. When completely dissolved, adjust the volume to 750 ml with water. The pH should be 8.6 at 25°C.

The prepared Barbital Buffer solution may be used with commercially available cellulose acetate membranes and agarose gels. Prior to electrophoresis, it may be necessary to equilibrate these materials in the buffer solution according to manufacturer's instructions for the support medium. Buffered agarose gels that are commercially available may have to be re-equilibrated for at least 2 hours in 300 ml of Barbital Buffer solution.

Storage/Stability

Store the unreconstituted product at room temperature. Reconstituted Barbital Buffer solutions are stable for at least 4 weeks when stored refrigerated (2–8 °C). Discard solutions if microbial growth is observed.

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