
DEPC Treated Grade Water, Ultra-Pure

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| Catalog #: | 351-068-721EA | 100mL |
| | 351-068-721 | 4 x 100mL |
| | 351-068-131 | 1000mL |
| | 351-068-131CS | 10 x 1000mL |
| | 351-068-491 | 4L |
| | 351-068-151 | 10L |
| | 351-068-161 | 29K |

Store at: 15°C to 30°C
Shipped at: ambient temperature

Description

Quality Biological's (QBI) DEPC Treated Water, Ultra-Pure is prepared by reverse osmosis, passed through fine carbon, deionized through two resin beds, and serially filtered twice through 0.2µm positively charged membranes. The water is subsequently treated with 0.1% (v/v) DEPC (Diethylpyrocarbonate), incubated, and heated overnight at 37°C. Finally, DEPC Treated Water is filtered through a 0.1 µm filter.

Applications

DEPC Treated Water can be used to reconstitute nucleic acids and/or proteins. In addition, it can be used as a diluent or solvent for any molecular biology grade biochemical. The following are three examples of situations where DEPC Treated Water may be usefully employed:

- *RNA applications* (e.g., preparation of an RNA probe)³
- *DNA applications* (e.g., subcloning in pUC plasmids)³
- *Protein applications* (e.g., Western Blotting)³

Quality Control*General*

The quality of a product is a combination of careful selection of raw materials, proper manufacturing procedures, and diligent monitoring of each step.

All QBI products for Molecular Biology are prepared according to standard published protocols^{1,2} or to formulations provided by customers.

Quality Control is used to determine whether each step in the manufacturing process has been properly carried out and the finished product meets or exceeds the standards established for it.

Product Specific Testing

DEPC Treated Water is routinely tested for the absence of DNase, RNase, and Protease activity.

The test results of individual lots of DEPC Treated Water are available on the QBI website.

References

1. Sambrook, J., Fritsch, E.F. & Maniatis, T. (1989) *Molecular Cloning, a Laboratory Manual, 2nd Edition.*, Cold Spring Harbor Press
2. Ausubel, F.M. et al., eds. (1993) *Current Protocols in Molecular Biology*. Green Publishing Associates, Inc., in association with John Wiley & Sons, Inc.
3. Davis, L.G. Dibner, M.D. & Battey, J.F. (1986) *Basic Methods in Molecular Biology*. Elsevier Science Publishing Company, Inc.

Related Products

Molecular Biology Grade (MBG) Water

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|-----------|---------------|-------------------|
| Catalog # | 351-029-721EA | 100mL |
| | 351-029-721 | Pack of 4 x 100mL |
| | 351-029-101 | 500mL |
| | 351-029-101CS | 10 x 500mL |
| | 351-029-131 | 1000mL |
| | 351-029-131CS | 10 x 1000mL |
| | 351-029-491 | 4 Liters |
| | 351-029-151 | 10 Liters |
| | 351-029-161 | 20 Liters |

All products sold by Quality Biological, Inc. are intended for research use only. This product has not been approved for diagnostic or IVD use.