

Instructions for Use



MOLECULAR GRADE WATER - ULTRA PURE

Cat. no. CG490BX	Ultra Pure, Molecular Grade Water, 125ml Square PC Bottle, 100ml	6 bottles/box
Cat. no. CG492BX	Ultra Pure, Molecular Grade Water, 1L PET Bottle, 1000ml	10 bottles/box

INTENDED USE

Hardy Diagnostics CulGenex™ Ultra Pure, Molecular Grade Water is suitable for use in molecular biology applications that require water free of DNAses, RNAses and proteases.

This product is not intended to be used for the diagnosis of human disease.

SUMMARY

Nucleases (RNAses and DNAses) and proteases are enzymes capable of degrading DNA, RNA and protein molecules. They are ubiquitous, environmentally stable and difficult to inactivate. The most common source of nuclease and protease contamination comes from skin and bacteria or mold that may be present on airborne dust particles or laboratory ware. The proper use of gloves and the use of Ultra Pure molecular grade water can help eliminate nucleases and proteases on labware and in laboratory solutions.

Ultra Pure, Molecular Grade Water is DNase, RNase and protease-free. It is made without the use of toxic agents, thus eliminating any potential interference of enzymatic reactions, and is sterile-filtered. It is suitable for use in all molecular biology procedures that demand a high quality of water purity, including PCR applications.

The source water used to prepare Hardy Diagnostics CulGenex™ Ultra Pure, Molecular Grade Water is Type 1 >18 megohms*, deionized and processed by reverse osmosis. The water has been treated by UV light and filtered through a 0.1µm filter. Hardy Diagnostics CulGenex™ Ultra Pure, Molecular Grade Waters is ready to use. They are sold by the individual bottle or by the package.

*Refer to water report for specific testing specifications.

FORMULA

Ingredients per liter:*

CulGenex™ Ultra Pure, Molecular Grade Water (Cat. no. CG490BX, CG492BX):	
Molecular Grade Water, >18 megohms	1000.0ml

Final pH 6.0 +/- 1.0 at 25°C.

* Adjusted and/or supplemented as required to meet performance criteria.

STORAGE AND SHELF LIFE

Storage: Upon receipt store at 2-30°C. away from direct light. Product should not be used if there are any signs of deterioration, discoloration, contamination, or if the expiration date has passed.

The expiration date on the product label applies to the product in its intact packaging when stored as directed. The product may be used and tested up to the expiration date on the product label and incubated for the recommended incubation times as stated below.

Refer to the document "[Storage](#)" for more information.

PRECAUTIONS

This product may contain components of animal origin. Certified knowledge of the origin and/or sanitary state of the animals does not guarantee the absence of transmissible pathogenic agents. Therefore, it is recommended that these products be treated as potentially infectious, and handle observing the usual universal blood precautions. Do not ingest, inhale, or allow to come into contact with skin.

This product is for laboratory use only. It is to be used only by adequately trained and qualified laboratory personnel. Observe approved biohazard precautions and aseptic techniques. All laboratory specimens should be considered infectious and handled according to "standard precautions." Refer to the document "[Guidelines for Isolation Precautions](#)" from the Centers for Disease Control and Prevention.

For additional information regarding specific precautions for the prevention of the transmission of all infectious agents from laboratory instruments and materials, and for recommendations for the management of exposure to infectious disease, refer to CLSI document M29: *Protection of Laboratory Workers from Occupationally Acquired Infections*.

Sterilize all biohazard waste before disposal.

Refer to the document "[Precautions When Using Media](#)" for more information.

PROCEDURE

Consult additional references for information on specific standard protocols.⁽¹⁻⁵⁾

LIMITATIONS

Refer to the document "[Limitations of Procedures and Warranty](#)" for more information.

QUALITY CONTROL

Hardy Diagnostics tests CulGenex™ Ultra Pure, Molecular Grade Water for sterility, endotoxin, nuclease activity, protease activity, pH, and fill volume.

USER QUALITY CONTROL

End users of commercially prepared culture media should perform QC testing in accordance with applicable government regulatory agencies, and in compliance with accreditation requirements. Hardy Diagnostics recommends

end users check for signs of contamination and deterioration and, if dictated by laboratory quality control procedures or regulation, perform quality control testing to demonstrate growth or a positive reaction and to demonstrate inhibition or a negative reaction, if applicable. Hardy Diagnostics quality control testing is documented on the certificate of analysis (CofA) available from Hardy Diagnostics [Certificate of Analysis](#) website. Also refer to the document "[Finished Product Quality Control Procedures](#)," and the CLSI document M22-A3 *Quality Assurance for Commercially Prepared Microbiological Culture Media* for more information on the appropriate QC procedures. See the references below.

PHYSICAL APPEARANCE

CulGenex™ Ultra Pure, Molecular Grade Water should appear clear, and colorless.

REFERENCES

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2. Bullock, G.R. and Petrusz, P. 1989. *Techniques in Immunocytochemistry*, Volumes 1, 2, 3 and 4, Academic Press, London.
3. Cseke, L.J., P.B. Kaufman, G.K. Podila, and C.J. Tsai. 2004. *Handbook of Molecular and Cellular Methods in Biology and Medicine*. CRC Press. Taylor & Francis LLC. Boca Raton, FL.
4. Sambrook and Russell. 2001. *Molecular Cloning: A Laboratory Manual, 3rd ed.* Cold Spring Harbor Laboratory Press. Woodbury, New York.
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IFU-10372[C]



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[Ordering Information](#)

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