

Instructions for Use

CRITERION™ PEPTONE WATER WITH LECITHIN AND TWEEN®

Cat. no. C8180	CRITERION™ Peptone Water with Lecithin and Tween®	34gm
Cat. no. C8181	CRITERION™ Peptone Water with Lecithin and Tween®	500gm
Cat. no. C8182	CRITERION™ Peptone Water with Lecithin and Tween®	2kg
Cat. no. C8183	CRITERION™ Peptone Water with Lecithin and Tween®	10kg
Cat. no. C8184	CRITERION™ Peptone Water with Lecithin and Tween®	50kg

INTENDED USE

Hardy Diagnostics' CRITERION™ Peptone Water with Lecithin and Tween® is recommended for the cultivation of microorganisms from environmental samples and the neutralization of disinfectants.

This dehydrated culture medium is a raw material intended to be used in the making of prepared media products, which will require further processing, additional ingredients, or supplements.

SUMMARY

CRITERION™ Peptone Water with Lecithin and Tween® is useful as a minimal growth medium for the cultivation of injured or damaged cells from the environment.⁽⁴⁾ Peptone in the medium supplies nutrients necessary for cell growth and maintenance. Sodium chloride is added to maintain osmotic balance. Lecithin and Tween® 80 are surfactants added to neutralize the influence of residual antimicrobials and to aid in the recovery of stressed or injured cells. Residues left by germicidal or disinfecting agents often result in lowered microbial counts; therefore, neutralization of residual disinfectants limits their inhibitory effect. Quaternary ammonia compounds are neutralized by lecithin while phenolic disinfectants and hexachlorophene are neutralized by Tween® 80; together, lecithin and Tween® 80 neutralize ethanol.^(1,2)

FORMULA*

Gram weight per liter:	17gm/L
Gelatin Peptone	10.0gm
Sodium Chloride	5.0gm
Lecithin	1.0gm
Tween® 80	1.0gm

Final pH 7.2 +/- 0.2 at 25°C.

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

STORAGE AND SHELF LIFE

Store the sealed bottle(s) containing dehydrated culture medium at 2-8°C. Dehydrated culture medium is very hygroscopic. Keep lid tightly sealed. Protect dehydrated culture media from moisture and light. The dehydrated culture media should be discarded if it is not moist and lumpy or if the color has changed from its original beige.

Store the prepared culture media at 2-8°C.

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.

METHOD OF PREPARATION FOR DEHYDRATED CULTURE MEDIA

1. Suspend 17.0gm of the dehydrated culture media in one liter of distilled or deionized water. Stir to mix thoroughly.
2. Heat as necessary to dissolve completely.
3. Dispense desired volume into tubes or bottles, leaving head space, and cap loosely.
4. Sterilize in the autoclave at 121°C. for 15 minutes.
4. Cool the medium to 45-50°C. and tighten caps for long-term storage.

PROCEDURE AND INTERPRETATION OF RESULTS

For information on procedures and interpretation of results, consult listed references.

MATERIALS REQUIRED BUT NOT PROVIDED

Standard microbiological supplies and equipment such as autoclaves, incinerators, prepared media containers, other culture media, and incubators, etc., are not provided.

QUALITY CONTROL

Hardy Diagnostics tests each lot of commercially manufactured media using appropriate quality control microorganisms and quality specifications as outlined on the Certificate of Analysis (CofA) and the CLSI document M22-A3 *Quality Assurance for Commercially Prepared Microbiological Culture Media*. The following microorganisms are routinely used for testing at Hardy Diagnostics:

Test Organisms	Inoculation Method*	Incubation			Results
		Time	Temperature	Atmosphere	
<i>Escherichia coli</i> ATCC® 25922	A	18-24hr	35°C	Aerobic	Growth
<i>Staphylococcus aureus</i> ATCC® 25923	A	18-24hr	35°C	Aerobic	Growth

* Refer to the document "[Inoculation Procedures for Media QC](#)" for more information.

USER QUALITY CONTROL

Users of dehydrated 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. In addition, refer to the following document "[Finished Product Quality Control Procedures](#)," for more information on QC or see the reference(s) for more specific information.

REFERENCES

1. APHA Technical Committee on Microbiological Methods for Foods. *Compendium of Methods for the Microbiological Examination of Foods*, APHA, Washington, D.C.
2. American Public Health Association. *Standard Methods for the Examination of Water and Wastewater*, APHA, Washington, D.C.
3. Tille, P., et al. *Bailey and Scott's Diagnostic Microbiology*, C.V. Mosby Company, St. Louis, MO.
4. MacFaddin, J.F. 1985. *Media for Isolation, Cultivation, Identification, Maintenance of Bacteria*, Vol. I. Williams & Wilkins, Baltimore, MD.
5. Jorgensen., et al. *Manual of Clinical Microbiology*, American Society for Microbiology, Washington, D.C.

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Tween is a registered trademark of ICI Americas, Inc.

IFU-10230[A]



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