

# Instructions for Use

## CRITERION™ M GREEN YEAST AND FUNGI BROTH

<a href="#">Cat. no. C7540</a>	CRITERION™ m Green Yeast and Fungi Broth	146gm
<a href="#">Cat. no. C7541</a>	CRITERION™ m Green Yeast and Fungi Broth	500gm
<a href="#">Cat. no. C7542</a>	CRITERION™ m Green Yeast and Fungi Broth	2kg
<a href="#">Cat. no. C7543</a>	CRITERION™ m Green Yeast and Fungi Broth	10kg
Cat. no. C7544	CRITERION™ m Green Yeast and Fungi Broth	50kg

### INTENDED USE

Hardy Diagnostics CRITERION™ m Green Yeast and Fungi Broth is recommended for the detection of yeast and fungi in beverages using membrane filtration.

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™ m Green Yeast and Fungi Broth is a complex formula used for the isolation of fungi and yeasts from beverages. The formulation is rich in nutrients which allows for excellent fungal growth. It contains yeast extract, pancreatic digest of casein, and peptic digest of animal tissue which provides necessary growth nutrients. Dextrose is the source of fermentable carbohydrate. Bacterial growth is inhibited by the low pH and bromcresol green is used as the pH indicator. The fungal colonies will appear green due to the diffusion of the dye into the colonies. The broth may turn yellow due to the production of acidic end products caused by the fermentation of dextrose.

### FORMULA

Gram weight per liter:	73.0gm/L
Dextrose	50.0gm
Yeast Extract	9.0gm
Pancreatic Digest of Casein	5.0gm
Peptic Digest of Animal Tissue	5.0gm
Magnesium Sulfate	2.1gm
Monopotassium Phosphate	2.0gm
Amylase	50.0mg

Thiamine	50.0mg
Bromcresol Green	26.0mg

Final pH 4.6 +/- 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 2-30°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 free-flowing or if the color has changed from its original light green.

Store the prepared culture medium 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 73.0gm of the dehydrated culture media in 1 liter of distilled or deionized water.
2. Heat as needed to dissolve completely.
3. Sterilize in the autoclave at 121°C. for 15 minutes.

## PROCEDURE AND INTERPRETATION OF RESULTS

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

## LIMITATIONS

It is recommended that biochemical, immunological, molecular, or mass spectrometry testing be performed on colonies

from pure culture for complete identification.

Some formulations may require a settling period before pH testing of the prepared medium. If the pH is tested immediately after preparation and is out of specification, retest the medium after 24 hours to obtain final pH results. Always take pH reading at room temperature.

Actually colony color will be hidden due to uptake of the bromcresol green dye.

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

## MATERIALS REQUIRED BUT NOT PROVIDED

Standard microbiological supplies and equipment such as autoclaves, incinerators, 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>Aspergillus brasiliensis</i> formerly <i>A. niger</i> ATCC® 16404	J	48hr	35°C	Aerobic	Growth
<i>Saccharomyces cerevisiae</i> ATCC® 9763	J	48hr	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.

## PHYSICAL APPEARANCE

CRITERION™ m Green Yeast and Fungi Broth powder should appear homogeneous, free-flowing, and light green in color. The prepared media should appear clear to slightly hazy, and green in color.

## REFERENCES

1. *Compendium of Methods for the Microbiological Examination of Foods*, 3rd ed. 1992. APHA, Washington, D.C.

ATCC is a registered trademark of the American Type Culture Collection.

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[Ordering Information](#)

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The Hardy Diagnostics manufacturing facility and quality management system is certified to ISO 13485.

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