

# Instructions for Use

## CRITERION™ CASEIN, ACID HYDROLYSATE

<a href="#">Cat. no. C5340</a>	CRITERION™ Casein, Acid Hydrolysate	100gm
<a href="#">Cat. no. C5341</a>	CRITERION™ Casein, Acid Hydrolysate	500gm
<a href="#">Cat. no. C5342</a>	CRITERION™ Casein, Acid Hydrolysate	2kg
<a href="#">Cat. no. C5343</a>	CRITERION™ Casein, Acid Hydrolysate	10kg
Cat. no. C5344	CRITERION™ Casein, Acid Hydrolysate	50kg

### INTENDED USE

Hardy Diagnostics CRITERION™ Casein, Acid Hydrolysate is primarily for use in preparing Mueller Hinton Agar, Mueller Hinton Broth, and other culture media.

This 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

Casein, Acid Hydrolysate is an hydrochloric acid hydrolysate of casein. Hydrolysis with acid is non-specific, attacking all peptide bonds and degrading proteins and polypeptides to low chain length peptides and amino acids. In the analytical data this is shown by a high amino nitrogen (compared to enzymatic digests) and the presence of high levels of sodium chloride. The latter is caused by neutralization of hydrochloric acid with sodium hydroxide.

Acid hydrolysis destroys tryptophan and partially destroys cystine, serine and threonine. Asparagine and glutamine are converted to their acidic forms and vitamins are destroyed.

### 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 beige.

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.

## MATERIALS REQUIRED BUT NOT PROVIDED

Standard microbiological supplies and equipment such as autoclaves, incinerators, and incubators, etc., are not provided.

## PHYSICAL APPEARANCE

CRITERION™ Casein, Acid Hydrolysate powder should appear homogeneous, free-flowing, and light beige in color. The pH of a 2% solution of CRITERION™ Casein, Acid Hydrolysate is 7.0.

## REFERENCES

1. Jorgensen., et al. *Manual of Clinical Microbiology*, American Society for Microbiology, Washington, D.C.
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3. Isenberg, H.D. *Clinical Microbiology Procedures Handbook*, Vol. I, II & III. American Society for Microbiology, Washington, D.C.
4. MacFaddin, J.F. 1985. *Media for Isolation, Cultivation, Identification, Maintenance of Bacteria*, Vol. I. Williams & Wilkins, Baltimore, MD.
5. Atlas, R.M. 1997. *Handbook of Microbiological Media*, 2nd ed. CRC Press, Boca Raton, FL.
6. *Quality Assurance for Commercially Prepared Microbiological Culture Media*, M22. Clinical and Laboratory Standards Institute (CLSI - formerly NCCLS), Wayne, PA.

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