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Casein Hydrolysate, Enzymic

RM31

Intended use

A rich source of amino acids, salts and vitamins.

Contents

See pack label.

Storage and shelf life

All dehydrated culture media containers should be kept tightly closed and stored in a dry place at 10 to 25°C until the expiry date shown on the pack label.

Precautions

For *in vitro* diagnostic use only. Observe approved hazard precautions and aseptic techniques. To be used only by adequately trained and qualified laboratory personnel. Sterilise all biohazard waste before disposal. Refer to Product Safety Data sheet (available on request or via MAST® website).

Since the late 1980s MAST® has sourced all its animal-derived culture media ingredients from non-bovine animals wherever possible. All animal-derived materials, including bovine materials, are from BSE-free regions of the world, are from animals certified as disease-free by qualified veterinarians and have been heat-treated in accordance with European regulations. Despite these precautions, MAST® Media Raw Materials must not be used in the manufacture of vaccines or food ingredients, or in the manufacture of any other high-risk products involving culture processes such as those destined for *in-vivo* or agricultural use.

Materials required but not provided

Standard microbiological supplies and equipment such as loops, MAST® selective supplements, swabs, applicator sticks, incinerators and incubators, etc., as well as serological and biochemical reagents and additives such as blood.

Description

MAST® Casein Hydrolysate, Enzymic, is a tryptic digest. Enzymic digestion of casein is not as severe as acidic digestion and consequently the hydrolysate is a rich source of amino acids and vitamins. However, as a consequence of less complete digestion, the constituent nitrogen components are less completely defined.

Due to the high level of tryptophane, the digest is suitable for demonstration of indole production; a medium containing 1% of the hydrolysate and 0.5% sodium chloride is ideal. It is free from fermentable carbohydrates and may be used in growth media for biochemical studies. MAST® Casein Hydrolysate, Enzymic, may be used as a substitute for peptone in most media.

Procedure

MAST® Casein Hydrolysate, Enzymic should be added at the appropriate concentration to culture media with additional ingredients e.g. meat extracts, peptones and agar as specified in the formulation being prepared.

Quality control

Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate expected performance. Do not use the product if the result with the control organism is incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain.

| Test Organisms | Result |
|--|---------|
| <i>Escherichia coli</i> ATCC® 25922 | Growth* |
| <i>Staphylococcus aureus</i> ATCC® 25923 | Growth* |

*1% w/v sterile solution of MAST® Casein Hydrolysate, Enzymic with 0.5% w/v sodium chloride.

References

Bibliography available on request.