

Technical Specification Sheet



Casein Digest SKU: 700003534, 700003535, 700003536, 700003537 NCM0215

Intended Use

Casein Digest is an enzymatic digest of casein for use in preparing microbiological culture media in a laboratory setting. Casein Digest is not intended for use in the diagnosis of disease or other conditions in humans.

Description

Casein is the main protein of milk and a rich source of amino nitrogen. Casein Digest was developed for use in molecular genetic media formulations, including NZCYM Broth, NZYM Broth, and NZM Broth. The enriched formulations of NZ media are used to cultivate recombinant strains of *E. coli* and propagating theta bacteriophages.

Precaution

Refer to SDS

Quality Control Specifications

Dehydrated Appearance: Powder is homogeneous, free-flowing, and light beige.

Prepared Appearance (2% Solution): Prepared medium is pale yellow to gold, clear with or without a light precipitate.

pH (2% Solution at 25°C): 7.0 ± 0.2 @ 25°C

Expected Cultural Response: Growth supporting properties in NZM Broth:

Microorganism	Growth
<i>Escherichia coli</i>	Good to excellent
<i>Bacillus subtilis</i>	Good to excellent
<i>Saccharomyces cerevisiae</i>	Poor to fair

Microbial Count: < 1000 cfu/g

Test Procedure

Refer to appropriate references for specific procedures using Casein Digest.

Results

Refer to appropriate references for test results.

Expiration

Refer to expiration date stamped on the container. The product should be discarded if it is not free flowing, or if medium has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Storage

Store product at 2-30°C away from direct sunlight. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

References

1. Ausubel, F. M., R. Brent, R. E. Kingston, D. D. Moore, J. G. Seidman, J. A. Smith, and K. Struhl. 1994. Current protocols in molecular biology, vol. 1. Current Protocols, New York, NY.



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