



CASEIN DIGEST PEPTONE (7689)

Intended Use

Casein Digest Peptone is an enzymatic digest of casein for use in preparing microbiological culture media.

Product Summary and Explanation

Casein is the main protein of milk, and a rich source of amino nitrogen. Casein Digest Peptone 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.¹

Principles of the Procedure

Casein Digest Peptone provides nitrogen, vitamins, and amino acids in prepared culture media.

Precaution

1. For Laboratory Use.

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 Peptone.

Results

Refer to appropriate references for test results.

Storage

Store sealed container containing Casein Digest Peptone at 2 - 30°C. 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.

Expiration

Refer to expiration date stamped on container. Casein Digest Peptone should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to Casein Digest Peptone in its intact container when stored as directed.

Packaging

Casein Digest Peptone	Code No.	7689A	500 g
		7689B	2 kg
		7689C	10 kg

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.

Technical Information

Contact Acumedia Manufacturers, Inc. for Technical Service or questions involving dehydrated culture media preparation or performance at (517)372-9200 or fax us at (517)2006.