

Beef Extract Powder (NCM0208)

Intended Use

Beef Extract Powder is a dehydrated extract of bovine tissue for use in preparing microbiological culture media in a laboratory setting. Beef Extract Powder is not intended for use in the diagnosis of disease or other conditions in humans.

Description

Beef Extract Powder is prepared and standardized for use in microbiological culture media, where it is generally used to replace infusion of meat. Culture media containing Beef Extract Powder are recommended for use in bacteriological examination of water, milk, and other materials, where uniform composition of media is important. Beef Extract Powder is relied upon for biochemical studies, particularly fermentation reactions because of its independence from fermentable substances. Several media containing Beef Extract Powder are recommended in standard methods for multiple application.

Precaution

Refer to SDS

Quality Control Specifications

Dehydrated Appearance: Powder is homogeneous, free-flowing and medium to dark tan.

Prepared Appearance (2% wt/vol): Prepared medium is clear, amber and may have a slight precipitate.

Chemical Composition:

Total Nitrogen (TN):	11% – 14%
Ash:	≤ 19%
Loss on Drying:	≤ 5%
pH (2% solution):	7.0 ± 0.2

Microbiological Specifications:

Standard Plate Count:	<5000 CFU / g
Yeast and Mold Count:	< 100 CFU / g
<i>Salmonella</i> / 25 g:	Negative

Expected Cultural Response: Cultural response in 2% Peptone Agar at 37°C after 18 - 24 hours incubation.

Microorganism	Response
<i>Escherichia coli</i>	Growth
<i>Staphylococcus aureus</i>	Growth

Test Procedure

Refer to appropriate references for specific procedures using Beef Extract Powder.

Results

Refer to appropriate references for test results.

Technical Specification Sheet



Expiration

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

Storage

Store dehydrated 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. Eaton, A. D., L. S. Clesceri, and A. E. Greenberg (eds.). 2017. Standard methods for the examination of water and wastewater, 23rd ed. American Public Health Association, Washington, D.C.
2. www.fda.gov/Food/ScienceResearch/LaboratoryMethods/BacteriologicalAnalyticalManualBAM/default.htm
3. Vanderzant, C., and D. F. Splittstoesser (eds.). 2015. Compendium of methods for the microbiological examination of food, 4th ed. American Public Health Association, Washington, D.C.

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620 Leshar Place • Lansing, MI 48912
800-234-5333 (USA/Canada) • 517-372-9200
foodsafety@neogen.com • foodsafety.neogen.com