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Cooked Meat Medium (R.C.Medium)

Cooked Meat Medium (R.C.Medium) is used for cultivation of aerobes and anaerobes, especially pathogenic Clostridia.

REF: BS.1/NZ01.100.0100	100 Gram	REF: BS.1/NZ01.250.0250	250 Gram
REF: BS.1/NZ01.500.0500	500 Gram		

PRINCIPLE AND INTERPERTATION :

Cooked Meat Medium was originally developed by Robertson for the cultivation of certain anaerobes isolated from wounds. The present formulation is recommended by BIS for the detection and enumeration of bacteria responsible for food poisoning especially Clostridium welchii. This medium with addition of further 10% Sodium chloride is used as a salt medium for isolation of Staphylococci. It is used for cultivation and maintenance of Clostridia and for determining proteolytic activity of anaerobes. FDA has recommended a slight modification of this medium for enumeration and identification of Clostridium perfringens from foods. Cooked Meat Medium contains beef heart, the muscle protein which provides amino acids and other nutrients. It also contains glutathione a reducing substance which permits the growth of obligate anaerobes. The sulphydryl groups which impart reducing effect are more available in denatured protein and hence the cooked meat is added in the medium. The growth in this medium is indicated by the turbidity or bubble formation by some organisms. Blackening and disintegration of the meat particles indicate proteolysis. For best results, medium should be used on the day it is prep

MEDIA COMPOSITION

Item	Formula per liter of medium
Beef heart, infusion from	500.00 gm
Peptic digest of animal tissue	5.00 gm
Sodium chloride	2.50 gm

Final pH (at 25ºC) 7.8 ± 0.2 ** Formula adjusted, standardized to suit performance parameters.

PRECAUTIONS AND WARNINGS

Media to be handled by entitled and professionally educated person. Do not ingest or inhale.
Good Laboratories practices using appropriate precautions should be followed in:Wearing personnel protective equipment (overall, gloves, glasses,).

- Do not pipette by mouth.
- In case of contact with eyes or skin; rinse immediately with plenty of soap and water. In case of severe injuries; seek medical advice immediately.
- Respect country requirement for waste disposal.
  S56: dispose of this material and its container at hazardous or special waste collection point.
  S57: use appropriate container to avoid environmental contamination.
  S61: avoid release in environment.

For further information, refer to the Mueller Hinton Agar material safety data sheet.

STORAGE AND STABILITY

BioScien Stored below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Store dehydrated powder, in a dry place, in tightly-sealed containers at 2-25°C. . Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Use before expiry date on the label. Product performance is best if used within stated expiry period.

PREPARATION

Suspend 11.54 grams in 100 ml distilled water. Mix thoroughly and allow to stand for 15 minutes until all the particles are thoroughly wetted. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minute.

Deterioration

The color of Cooked Meat Medium ***BioScien*** Brown coloured granules. Prepared media Medium amber coloured clear to slightly opalescent supernatant over insoluble granules.

EQUIPMENT REQUIRED NOT PROVIDED

- Sterile petri dishes
- Incubator
- Autoclave

PERFORMANCE CHARACTERISTICS

Cultural characteristics observed after an incubation at 35°C for 40-48 hours.

Organisms (ATCC)	Growth
Clostridium botulinum ATCC 25763	luxuriant
Clostridium perfringens ATCC 12924	luxuriant
Clostridium sporongens 11437	luxuriant
Enterococcus faecalis ATCC 29212	luxuriant
Streptococcus pneumoniae ATCC 6303	luxuriant

QUALITY CONTROL

To ensure adequate quality control, it is recommended that positive and negative control included in each run. If control still out of range please contact ***BioScien*** technical support.

REFERENCE

1 . Robertson, 1916, J. Pathol. Bacteriol., 20:327.

2. Bureau of Indian Standards IS : 5887 (Part II) 1976, Second Reprint December 1994.

3. Bureau of Indian Standards IS : 5887 (Part IV) 1976.

4. Lenette and others (Eds.), 1985, Manual of Clinical Microbiology, 4th ed., ASM, Washington,D.C.

IVD	For in-vitro diagnostic use	Σ	Number of <n> test in the pack
LOT	Batch Code/Lot number		Caution
REF	Catalogue Number		Do not use if package is damaged
	Temperature Limitation		Consult Instruction for use
	Expiration Date		
	Manufactured by		