CM 24030 - VEG.MEATEXTRACT POWDER (Culture Media Ingredient)

INTENDED USE

Anutritious extract used as an ingredient in the preparation of culture media for cultivation of a wide variety of fastidious microorganisms.

PRODUCT SUMMARY AND EXPLANATION

Veg.MeatExtract Powderis derived from infusion of meat and provides an undefined source of nutrients. it is not exposed to the harsh treatment used forprotein hydrolysis, so it can provide some of the nutrients lost during peptone and amino acids, nucleotide fractions, organic acids, minerals and some vitamins.
manufacture. Veg.Meat ExtractPowder is a mixture of peptides

PRINCIPLE

Veg.Meat Extract Powderis manufactured from meat with low fat content and can be considered as complementing the nutritive properties of peptoneby contributing minerals, phosphates, energy sources and those essential factors missing from peptone. Veg.MeatExtractPowder powder is a source of amino acids, peptides and other nutrients.

INSTRUCTION FOR USE

Veg.Meat ExtractPowderis frequently used at a concentration of 0.3 to 1.0% in culture media, although concentrations may vary depending on the nutritional requirements for the medium formulation.

QUALITY CONTROL SPECIFICATIONS

Appearance	:	Brownish yellow color, free flowing powder having meat characteristic odour but not pungent smell.
Solubility (2% soln. at 25ºC)	:	Soluble in Water, Clear. Insoluble in alcohol.
Clarity (2% Soln. at 121ºC)	:	Clear solution. No ppt.
pH (2% Soln. at 25ºC)	:	6.5 – 7.5
Loss on drying (at 105ºC)	:	NMT – 6.0%
Total Nitrogen (DWB)	:	NLT – 12.0%
α-Amino Nitrogen	:	NLT – 2.5%
Total Ash	:	NMT – 15.0%
Chloride (as NaCl)	:	NMT – 6.0%
Microbial parameters	:	Passes Test
Growth promotion test	:	Passes Test
Indole Test	:	Positive

TEST	SOLUTION	ORGANISM	ATCC	RESULT
Hydrogen Sulfide Production	1%	Salmonella Typhimurium	14028	Positive
Indole Production	1%	Escherichia coli	29552	Positive

INTERPRETATION

Cultural Characteristic observed in 2% Veg. Meat Extract Powder and 1.5% agar after incubation at 35-37°C for 18-24 hours.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth
Escherichia coli	8739	50-100	none-poor

Proteus mirabilis	25933	50-100	fair-good
Salmonella Typhimurium	14028	50-100	fair-good
Shigella flexneri	12022	50-100	none-poor
Yersinia enterocolitica	27729	50-100	Good - Luxuriant

PACKAGING:

Standardpacking is 500gm in plastic bottle. After packing tightly closed in a dry and well- ventilated place.

STORAGE

Store atroom temperature in cool place, Keep plastic bottle tightly closed in a dry and well-ventilated place. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

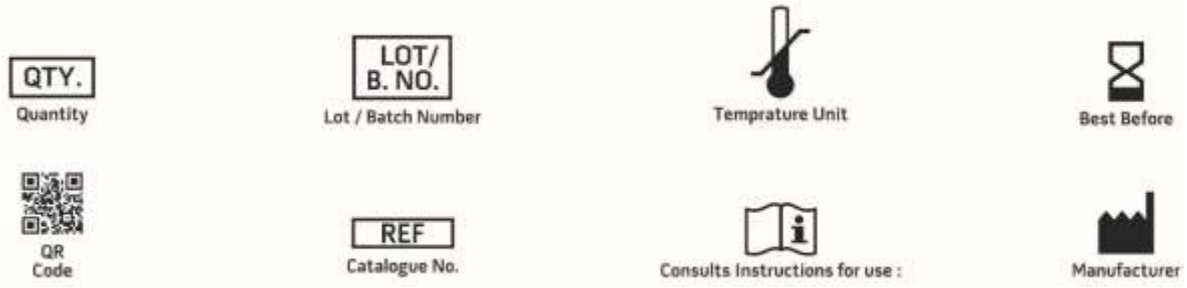
Product Deterioration: Do not use product if any contamination, discoloration or other sign of deterioration is found.

DISPOSAL

Afteruse,contact a licensed professional waste disposal service to dispose of this material. Dispose of as unused product.

REFERENCES

1. United States Pharmacopeial Convention. 2006. The United States pharmacopeia 29/The national formulary 24—2006. United States Pharmacopeial Convention, Inc., Rockville, Md.
2. Cote. 1999. Media composition, microbial, laboratory scale. In Flickinger and Drew (ed.), Encyclopedia of bioprocess technology: fermentation, biocatalysis, and bioseparation. John Wiley & Sons, Inc., New York.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

*ForLab Use Only