

CM 24038 - VEG. TRYP HYDROLYSATE

(EnzymaticHydrolysateofProteinthatReplaceMeat Infusion)

INTENDED USE

Used in antibiotic sensitivity testing media, vaccine preparation media etc.

PRODUCT SUMMARY AND EXPLANATION

CaseinAcidHydrolysate isthe result of acid digestion of milk protein by hydrochloric acid. Absence of sulphonamide inhibitors makes Casein Acid Hydrolysate Powder ideal for preparation of Antibiotic Test Media, like Mueller Hinton Agar and Vaccine Preparation Media as a source of high concentration of free amino acids. It contains all amino acids (except Tryptophan and Cystine which are destroyed during acid hydrolysis) present in milk protein and high sodium chloride content

PRINCIPLE

Casein Acid Hydrolysate is the result of acidic digestion of milk protein-casein by hydrochloric acid. As such, it contains all amino acids (except Tryptophan and Cystine which are destroyed during acid hydrolysis) present in Casein.

INSTRUCTION FOR USE

CaseinAcidHydrolysateused as an ingredient in Mueller Hinton Agar.

QUALITY CONTROL SPECIFICATIONS

Appearance	:	Off white to creamish yellow colour, free flowing powder, having characteristic odour but not pungent smell.
Solubility (2% soln. at 25°C)	:	Soluble in distilled Water, Clear. Insoluble in alcohol.
Clarity (2% Soln. at 121°C)	:	Clear solution. No ppt.
pH (2% Soln. at 25°C)	:	6.5 – 7.5
Loss on drying (at 105°C)	:	NMT – 6.0%
Total Nitrogen (DWB)	:	NLT – 11.0%
α-Amino Nitrogen	:	NLT – 4.5%
Total Ash	:	NMT – 22.0%
Sodium Chloride (NaCl)	:	NMT – 20.0%
Heavy Metals (Pb)	:	NMT- 20ppm
Indole Test	:	Negative
Microbial test	:	Passes Test

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. Tryp hydrolysate and 1.5% agar after incubation n for bacterial at 35-37°C for 18-24 hours and for fungal at 20-25°C for not less than 5 days

Microorganism	ATCC	Inoculum (CFU/ml)	Growth
Staphylococcus aureus subsp. aureus	6538	50-100	Luxuriant



Staphylococcus aureus subsp. aureus	25923	50-100	Luxuriant
Escherichia coli	8739	50-100	Luxuriant
Escherichia coli	25922	50-100	Luxuriant
Pseudomonas aeruginosa	8739	50-100	Luxuriant
Pseudomonas aeruginosa	27853	50-100	Luxuriant
Bacillus subtilis subsp. Spizizenii	6633	50-100	Luxuriant
Salmonella enterica serovar Typhimurium	14028	50-100	Luxuriant
Kocuria rhizophila Streptococcus pneumoniae Candida albicans	9341	50-100	Luxuriant
Aspergillus brasiliensis	6303	50-100	Luxuriant
	10231	50-100	Luxuriant
	16404	50-100	Luxuriant

PACKAGING

Standard packing is 500gm, 5kg in plastic bottle & Drum. After packing tightly closed in a dry and well-ventilated place.

STORAGE

Store at room 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

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

REFERENCES

1. Casman. 1942. A dehydrated medium to supplement meat infusion as a base for blood agar. J. Bacteriol. 43:33.
2. Casman. 1947. A noninfusion blood agar base for neisseriae, pneumococci and streptococci. Am. J. Clin. Pathol. 17:281-289.
3. Mobley, Chengappa, Kadel and Stuart. 1984. Effect of pH, temperature and media on acid and alkaline phosphatase activity in "clinical" and "nonclinical" isolates of Bordetella bronchiseptica. Can. J. Comp. Med. 48:175-178.
4. Litwin. 1985. Further studies on a tryptose based serum-free medium for human diploid fibroblasts. Dev. Biol. Stand. 60:25-33.



Quantity



Lot / Batch Number



Temperature Unit



Best Before

NOTE:



QR Code



Catalogue No.



Consults Instructions for use :



Manufacturer

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

*For Lab Use Only

