

1521V - TRYPTOSE

(Enzymatic hydrolysate of Protein that Replace Meat Infusion)

INTENDED USE

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

PRODUCT SUMMARY AND EXPLANATION

Casein Acid Hydrolysate is the result of acidic 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

Casein Acid Hydrolysate used 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
<i>Staphylococcus aureus subsp. aureus</i>	6538	50-100	Luxuriant



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

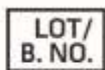
After use, contact a licenced professional waste disposal service to dispose of this material. Dispose of as unused product.

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



QR Code



Catalogue No.



Consults Instructions for use :



Manufacturer

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

***For Lab Use Only**
Revision: 05th Oct. 2019

