

Product Data Sheet

ENTAMOEBA MEDIUM

Product No. GB-DCM-00199-1A

INTENDED USE

For cultivation of Entamoeba histolytica.

PRODUCT SUMMARY

Amoebiasis occurs throughout all areas of the world, the causative agent of which is Entamoeba histolytica, the only amoeba pathogenic for humans. In nature, the organism exists in the cyst form. It enters the body through contaminated food or water. The organism passes through the stomach as cyst and the trophozoite amoebas emerge in the intestine. E. histolytica destroys the tissue of the large intestine, causing lesions, deep ulcers and diarrhea. Entamoeba Medium formulated by Cleveland and Sanders and Cleveland and Collier, is used for the cultivation of E.histolytica. This medium is highly specific for E.histolytica, which grows luxuriantly on this medium. Other intestinal amoebae do not grow readily on this medium. The technique of overlaying the medium with fresh sterile horse serum saline mixture, as reported by Cleveland and Collier, was reported to be the best method of isolation of E.histolytica.

Product Specifications

Ingredients	Gms / Ltr
Liver, infusion from	272.000
Proteose peptone	5.500
Sodium alpha-glycerophosphate	3.000
Sodium chloride	2.700
Agar	6.000

PRINCIPLE

The medium consists of Proteose peptone and Liver infusion from which provide amino acids and other nitrogenous substances that support growth of E.histolytica. Sodium chloride maintains the osmotic balance of the medium and sodium alpha-glycerophosphate acts as a phosphorous source.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.



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INSTRUCTION FOR USE

- Dissolve 33.0 grams in 1000 ml purified / distilled water.
- Heat to boiling to dissolve the medium completely.
- Distribute in tubes and sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes. Cool to 45-50°C.
- Allow tubes to solidify in a slanted position. Cover about half of the slant with fresh sterile horse serum-saline mixture (1:6) and add a 5 mm loopful of rice powder, which has been sterilized in an oven at 160°C for one hour.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Entamoeba histolytica	30190	50-100	luxuriant	25-30°C	68-72 Hours
Entamoeba invadens	30016	50-100	luxuriant	25-30°C	68-72 Hours
Entamoeba moskkovskii	30042	50-100	luxuriant	25-30°C	68-72 Hours

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Light yellow coloured homogeneous free flowing powder.

Appearance of prepared medium: Dark amber coloured, slightly opalescent gel forms in tubes as slants.

pH (at 25°C) : 7.0±0.2

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

This product is for research use only.

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