

Product Data Sheet

DIHYDROLASE BROTH BASE

Product No. GB-DCM-00175-1A

INTENDED USE

For detection of dihydrolase reaction of *Vibrio parahaemolyticus*.

PRODUCT SUMMARY

Vibrios are fairly easy to isolate from both clinical and environmental material, though some species may require growth factors and /or vitamins. *Vibrio parahaemolyticus* is the leading cause of bacterial diarrhoea associated with the consumption of contaminated food products. Dihydrolase Broth Base is formulated as per APHA and is used for studying dihydrolase reaction of *V. parahaemolyticus*.

Product Specifications

Ingredients	Gms / Ltr
Peptone	5.000
Yeast extract	6.000
Dextrose (Glucose)	2.000
Sodium chloride	30.000
Bromo cresol purple	0.032

PRINCIPLE

The medium consists of Peptone and yeast extract which provide nitrogenous nutrients to support bacterial growth. Dextrose is the fermentable carbohydrate. Sodium chloride maintains osmotic equilibrium.

INSTRUCTION FOR USE

- Dissolve 43.03 grams in 1000 ml purified/distilled water.
- Heat if necessary to dissolve the medium completely.
- Divide in 2 parts. Add 0.5% L-Arginine to first portion. Use second portion as control.
- Dissolve completely and dispense 3.0 ml into 13 mm x 100 mm screw cap tube.
- Sterilize by autoclaving at 10 psi pressure (115°C) for 15 minutes.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Arginine dihydrolase	Incubation Temperature	Incubation Period
Vibrio cholerae	15748	50-100	Good-Luxuriant	Negative reaction, yellow colour	35-37°C	18 - 24 Hours
Vibrio parahaemolyticus	17802	50-100	Good-Luxuriant	Negative reaction, yellow colour	35-37°C	18 - 24 Hours

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Cream to yellow homogeneous free flowing powder
 Appearance of prepared medium: Purple coloured, clear solution without any precipitate.
 pH (at 25°C) : 6.8±0.2

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.

DISPOSAL

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

This product is for research use only.