

Product Data Sheet

AZIDE DEXTROSE BROTH

Product No. GB-DCM-00052-1A

INTENDED USE

For detection of faecal Streptococci in water, sewage, food and other materials.

PRODUCT SUMMARY

Enterococci are more resistant to chlorine in water, hence are better indicators of sewage pollution than Escherichia coli. Until 1984, members of the genus Enterococcus were classified as Group D Streptococci. Upon genomic DNA analysis, a separate genus status was provided to them. Azide Dextrose Broth is recommended by APHA for enumeration of faecal Streptococci by MPN technique. Azide Dextrose Broth was initially formulated by Rothe, Mullmann and Seligmann for quantitative determination of Enterococci in water, sewage, foods and other materials suspected of contamination with sewage. When large volumes of water samples are to be examined, double strength medium is used. Turbidity in tubes indicates presence of Enterococci; however, it should be further confirmed by inoculation in Ethyl Violet Azide Broth.

Product Specifications

Ingredients	Gms / Ltr
Peptone, special	15.000
Beef extract	4.500
Dextrose (Glucose)	7.500
Sodium chloride	7.500
Sodium azide	0.200

PRINCIPLE

Azide Dextrose Broth is a highly nutritious medium due to the presence of nutrient rich peptone special, beef extract and dextrose. Sodium azide inhibits growth of gram-negative bacteria, allowing Enterococci to grow.

INSTRUCTION FOR USE

- Dissolve 34.7 grams in 1000 ml purified/ distilled water for preparing single strength broth or use 69.4 grams in 1000 ml purified / distilled water for double strength broth.
- Heat, if necessary, to ensure complete solution.
- Dispense in test tubes and sterilize by autoclaving at 118°C for 15 minutes.



QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Cream to yellow homogeneous free flowing powder
 Appearance of prepared medium Amber coloured clear solution without any precipitate.
 pH (at 25°C) : 7.2 ± 0.2

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°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.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Enterococcus faecalis	29212	>=103	Inhibited	>=70%	35 - 37°C	18-24 Hours
Escherichia coli	25922	50-100	Good-Luxuriant	0-10%	35 - 37°C	18-24 Hours

This product is for research use only.