

TM 216 – THIOGLYCOLLATE BROTH W/ LIVER EXTRACT (B.Q.VACCINE MEDIUM)

INTENDED USE

For mass cultivation of anaerobes for vaccine production.

PRODUCT SUMMARY AND EXPLANATION

Anaerobic microorganisms have long been known as constituents of the normal bacterial flora of human and animal organisms. Both their pathogenic significance in medicine and their important role in food hygiene have, however, long been underestimated. During the past few years the importance of anaerobic microorganisms as pathogenic agents responsible for infectious diseases and the role they play in the microbial spoilage of food and water have been better appreciated. Extremely different spectra of anaerobic organisms are of importance for the examination of food and in the clinical microbiology. B.Q. Vaccine Medium (Thioglycollate Broth with Liver Extract) is modification of original Thioglycollate medium, recommended for the cultivation of anaerobic organisms on large scale. It is a nutritious medium due to the presence of peptic digest of animal tissue, liver tissues and muscle tissues.

COMPOSITION

Ingredients	Gms / Ltr
Peptic digest of animal tissue	10.000
Liver tissues,infusion from	5.000
Muscle tissues,infusion from	5.000
Sodium thioglycollate	1.000
Dipotassium phosphate	4.000
Sodium chloride	5.000

PRINCIPLE

Peptic digest of animal tissue supply the nitrogenous compounds and growth factors. Liver tissues and muscle tissues provide trace minerals, growth factors and vitamins for the growth of wide variety of organisms. Sodium thioglycollate acts as a reducing agent, which lowers the oxidation-reduction potential of the medium thereby enabling the obligate anaerobes to multiply. Added glucose, act as the source of energy. Dipotassium phosphate and sodium chloride helps in maintaining buffering action and isotonic conditions respectively in the medium.

INSTRUCTION FOR USE

- Suspend 30 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add 0.5% sterile glucose solution.
- Mix thoroughly and then dispense as desired.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Amber coloured, clear to very slightly opalescent solution
pH (at 25°C)	: 8.2±0.2

INTERPRETATION



Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Clostridium perfringens</i>	12924	50-100	Good-luxuriant	35-37°C	18-48 Hours
<i>Clostridium sporogenes</i>	11437	50-100	Good-luxuriant	35-37°C	18-48 Hours
<i>Streptococcus pyogenes</i>	19615	50-100	Good-luxuriant	35-37°C	18-48 Hours
<i>Bacillus subtilis</i>	6633	50-100	Good-luxuriant	35-37°C	18-48 Hours
<i>Micrococcus luteus</i>	10240	50-100	Good-luxuriant	35-37°C	18-48 Hours
<i>Neisseria meningitidis</i>	13090	50-100	Good-luxuriant	35-37°C	18-48 Hours
<i>Bacteroides vulgatus</i>	8482	50-100	Fair-good	35-37°C	18-48 Hours

PACKAGING:

In pack size of 500 gm bottles.

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.

REFERENCES

1. Brewer J. H., 1940, J. Am Med. Assoc., 115, 598.
2. Brewer J. H., 1940, J. Bacteriol. 39:10.



GMP Good Manufacturing Practices Certified	IVD For In Vitro Diagnostic Use	QTY. Quantity	LOT/ B. NO. Lot / Batch Number	REF Catalogue Number	 Manufacturer
 Temperature Unit	EC REP Authorized Representative <small>MedNet GmbH Buckstrasse 10 48163 Münster, Germany</small>	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

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

***For Lab Use Only**
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