



B.Q. Vaccine Medium (Thioglycollate Broth w/ HL Extract)

M462

Intended Use:

Recommended for mass cultivation of anaerobes for the vaccine production.

Composition**

Ingredients	Gms / Litre
Peptone	10.000
HL infusion from #	250.000
HMM infusion from ##	250.000
Sodium thioglycollate	1.000
Dipotassium hydrogen phosphate	4.000
Sodium chloride	5.000
Final pH (at 25°C)	8.2±0.2

**Formula adjusted, standardized to suit performance parameters

Equivalent to Liver tissues,infusion from

Equivalent to Muscle tissues,infusion from

Directions

Suspend 30 grams in 1000 ml purified / distilled water. Heat LI Q H F H V I S D U the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add 0.5% sterile glucose solution. Mix thoroughly and then dispense as desired.

Principle And Interpretation

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 (Uijphmzdpmbuf! Cspui! x0! IM! Fyusbdu) is modification of original Thioglycollate medium (1, 2), recommended for the cultivation of anaerobic organisms on large scale. It is a nutritious medium due to the presence of Qfqpof, HL infusion and HMM infusion.

Peptone supply the nitrogenous compounds and growth factors. HL infusion and HMM infusion 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.

Type of specimen

Isolated Microorganisms from Clinical samples

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Amber coloured, clear to very slightly opalescent solution

Reaction

Reaction of 3.0% w/v aqueous solution at 25°C. pH : 8.2±0.2

pH

8.00-8.40

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth
<i>Clostridium perfringens</i> ATCC 12924	50-100	good-luxuriant
<i>Clostridium sporogenes</i> ATCC 11437	50-100	good-luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	50-100	good-luxuriant
<i>Bacillus subtilis</i> ATCC 6633	50-100	good-luxuriant
<i>Micrococcus luteus</i> ATCC 10240	50-100	good-luxuriant
<i>Neisseria meningitidis</i> ATCC 13090	50-100	good-luxuriant
<i>Bacteroides vulgatus</i> ATCC 8482	50-100	fair-good

Reference

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

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