

PRODUCT SPECIFICATION SHEET



B.Q. Vaccine Medium (Thioglycollate Broth w/ Liver Extract) (DM1429)

Intended Use

B.Q.Vaccine Medium (DM1429) is recommended for mass cultivation of anaerobes during 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 (1, 2), 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.

Principles of the Procedure

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.

Formula / Liter

Ingredients	Gms / Liter
Peptic digest of animal tissue	10.000
Liver tissues,infusion from	250.000
Muscle tissues,infusion from	250.000
Sodium thioglycollate	1.000
Dipotassium phosphate	4.000
Sodium chloride	5.000
Final pH: 8.2 ± 0.2 at 25°C	
Formula may be adjusted and/or supplemented as required to meet performance specifications	

Precautions

1. For Laboratory Use only.
2. IRRITANT. Irritating to eyes, respiratory system, and skin.

Directions

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

Quality Control Specifications

Dehydrated Appearance	Cream to Yellow homogeneous free flowing powder
Prepared Medium	Amber coloured clear to slightly opalescent gel forms in Petri plates
Reaction of 3.0% Solution	pH : 8.2 ± 0.2 at 25°C
Gel Strength	Not Applicable

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





PRODUCT SPECIFICATION SHEET

Sr. No.	Organisms	Results to be achieved	
		Inoculum (CFU)	Growth
1.	<i>Clostridium perfringens</i> ATCC 12924	50-100	good luxuriant
2.	<i>Clostridium sporogenes</i> ATCC 11437	50-100	good luxuriant
3.	<i>Streptococcus pyogenes</i> ATCC 19615	50-100	good luxuriant
4.	<i>Bacillus subtilis</i> ATCC 6633	50-100	good luxuriant
5.	<i>Micrococcus luteus</i> ATCC 10240	50-100	good luxuriant
6.	<i>Neisseria meningitidis</i> ATCC 13090	50-100	good luxuriant
7.	<i>Bacteroides vulgatus</i> ATCC 8482	50-100	fair-good

The organisms listed are the minimum that should be used for quality control testing.

Test Procedure

Refer appropriate references for specific test procedures.

Results

Refer appropriate references and test procedures for interpretation of results.

Storage

Store the sealed bottle containing the dehydrated medium at 10- 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light.

Expiration

Refer to the expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitations of the Procedure

1. For identification, organisms must be in pure culture. Morphological, biochemical and/or serological tests should be performed for final identification.
2. Consult appropriate texts for detailed information and recommended procedures.

Packaging

Product Name : B.Q. Vaccine Medium (Thioglycollate Broth w/ Liver Extract)

Product Code : DM1429

Available Pack sizes : 500gm

References

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

Further Information

For further information please contact your local MICROMASTER Representative.



MICROMASTER LABORATORIES PRIVATE LIMITED

Unit 38/39, Kalpataru Industrial Estate,
Off G.B. Road, Near 'R-Mall' , Thane (W) - 400607. M.S. INDIA.
Ph: +91-9320126789/9833630009/9819991103
Email: sales@micromasterlab.com

DM1429P55, QAD/FR/024,Rev.00



PRODUCT SPECIFICATION SHEET



Disclaimer :

All Products conform exclusively to the information contained in this and other related Micromaster Publications. Users must ensure that the product(s) is appropriate for their application, prior to use. The information published in this publication is based on research and development work carried out in our laboratory and is to the best of our knowledge true and accurate. Micromaster Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are intended for laboratory, diagnostic, research or further manufacturing use only and not for human or animal or therapeutic use, unless otherwise specified. Statements included herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

