



Technical Data

Alternative Thioglycollate HiVeg™ Medium, Sterile powder MV010G

Alternative Thioglycollate HiVeg™ Medium, Sterile powder is gamma irradiated. This is recommended for evaluation of sterility in manufacturing process and system.

Composition**

Ingredients	Gms / Litre
HiVeg hydrolysate	15.000
Yeast extract	5.000
Dextrose(Glucose)	5.500
Sodium chloride	2.500
L-Cystine	0.500
Sodium thioglycollate	0.500
Final pH (at 25°C)	7.1±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Sterile powder can be used directly for the evaluation of sterility in manufacturing process. For sterile liquid medium aseptically add 29.0 grams in 1000 ml sterile distilled / purified water. Heat if necessary to dissolve the medium completely. Dispense aseptically in sterile tubes or flasks as desired. DO NOT AUTOCLAVE OR OVERHEAT. Excessive heating is detrimental. (Sterilised by gamma irradiation)

Note:

It is preferable to use freshly prepared medium, alternatively it should be boiled and cooled just once prior to use or with reheating, toxic oxygen radicles are formed.

Principle And Interpretation

Alternative Thioglycollate HiVeg Medium, sterile powder is prepared by replacing animal based Pancreatic digest of casein of Alternative Thioglycollate Medium, sterile powder with plant based HiVeg Hydrolysate. This makes the medium free of BSE-TSE associated risks. The formula is based on N.I.H. Memorandum (1), U.S. Pharmacopoeia (2) and Indian Pharmacopoeia (3). Alternative Thioglycollate HiVeg Medium contains sodium thioglycollate that can neutralize the bacteriostatic effect of mercurial preservatives. Absence of agar makes it suitable for testing viscous materials and devices having tubes with small lumina. HiVeg hydrolysate, yeast extract, dextrose, L-Cystine provides nitrogenous and carbonaceous compounds, vitamin B complex, trace elements and other essential growth nutrients.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light yellow coloured clear solution without any precipitate.

Reaction

Reaction of 2.9% w/v aqueous solution at 25°C. pH : 7.1±0.2

pH

6.90-7.30

Sterility Testing

No growth is observed after 14 days for Bacteria at 30-35°C and for Fungi at 20-25°C. No growth of Mycoplasma after 14 days at 35-38°C under microaerophilic condition

Stability test

Light yellow coloured clear solution without any precipitation or sedimentation at 30-35° for 7 days

Cultural response

Cultural characteristics observed after an incubation at 30-35°C for not more than 3 days.

Cultural Response

Organism	Growth	Inoculum (CFU)
Cultural response		
* <i>Clostridium sporogenes</i> ATCC 19404	luxuriant	50 -100
* <i>Clostridium sporogenes</i> ATCC 11437	luxuriant	50 -100
* <i>Clostridium sporogenes</i> NBRC 14293	luxuriant	50 -100
* <i>Clostridium perfringens</i> ATCC 13124	luxuriant	50 -100
<i>Staphylococcus aureus</i> ATCC25923	luxuriant	50 -100
* <i>Bacteroides fragilis</i> ATCC 23745	luxuriant	50 -100
* <i>Bacteroides vulgatus</i> ATCC 8482	luxuriant	50 -100
<i>Pseudomonas aeruginosa</i> ATCC 27853	luxuriant	50 -100
<i>Pseudomonas aeruginosa</i> ATCC 9027	luxuriant	50 -100
<i>Escherichia coli</i> ATCC 25922	luxuriant	50 -100
<i>Escherichia coli</i> ATCC 8739	luxuriant	50 -100
<i>Salmonella Abony</i> NCTC 6017	luxuriant	50 -100
<i>Salmonella Typhimurium</i> ATCC 14028	luxuriant	50 -100
<i>Staphylococcus aureus</i> ATCC 6538	luxuriant	50 -100
<i>Escherichia coli</i> NCTC 9002	luxuriant	50 -100
# <i>Candida albicans</i> ATCC 10231	luxuriant	50 -100

Key: (*) Incubated anaerobically (#) Incubated at 20-25°C

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

- 1.N.I.H. Memorandum, 1955 : Culture Media for Sterility Tests, 4th Revision.
- 2.The United States Pharmacopoeia/National Formulary USP31/NF26, 2008, The United States Pharmacopoeias Convention.Rockville, M.D.
- 3.Indian Pharmacopoeia, 2007, Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.

Revision : 0 / 2014

**Disclaimer :**

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