

**Soyabean HiVeg<sup>™</sup> Medium (Tryptone Soya HiVeg<sup>™</sup> Broth), Granulated****GMV011**

Soyabean HiVeg<sup>™</sup> Medium, granulated is a general purpose medium used for cultivation of a wide variety of microorganisms and recommended for sterility testing of moulds and lower bacteria.

**Composition\*\***

<b>Ingredients</b>	<b>Gms / Litre</b>
HiVeg hydrolysate	17.000
Papaic digest of soyabean meal	3.000
Dextrose	2.500
Sodium chloride	5.000
Dibasic potassium phosphate	2.500
Final pH ( at 25°C)	7.3±0.2

\*\*Formula adjusted, standardized to suit performance parameters

**Directions**

Suspend 30 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes or flasks as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 25°C.

Note: *If any fibres are observed in the solution, it is recommended to filter the solution through a 0.22 micron filter to eliminate the possibility of presence of fibres.*

**Principle And Interpretation**

Soyabean HiVeg Medium is prepared by completely replacing animal based peptones with vegetable peptones that makes the medium free of BSE/TSE risks. It is the modification of Soyabean Casein Digest Medium recommended by various pharmacopeias for sterility testing of various products and sensitivity testing of antimicrobial agents by tube dilution method (1-3) . This is a very nutritious medium supporting the growth of a variety of organisms (4). The combination of HiVeg hydrolysate and papaic digest of soyabean meal makes this medium nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Dextrose and dipotassium phosphate serves as the carbohydrate source and the buffer in the medium. Sodium chloride maintains the osmotic balance of the medium.

**Quality Control****Appearance**

Cream to yellow coloured granular medium

**Colour and Clarity of prepared medium**

Light yellow coloured clear solution without any precipitate.

**Reaction**

pH of 3.00% w/v aqueous solution at 25°C (after sterilization). pH : 7.3±0.2

**pH**

7.10-7.50

**Stability test**

Light yellow coloured clear solution without any precipitation or sedimentation at room temperature for 7 days

**Growth promoting properties**

Clearly visible growth of microorganism comparable to that previously obtained with previously tested and approved lot of medium occurs at the specified temperature for not more than the shortest period of time specified inoculating ≤100 cfu(at 30-35°C for 18-24 hours for bacteria and 5 days for fungal). Growth promotion is carried out as per USP/EP/BP/JP.

**Sterility Testing + Validation**

The medium is tested with suitable strains of microorganisms inoculating ≤100cfu and incubating at 20-25°C for not more than 3 days in case of bacteria and not more than 5 days in case of fungi.

**Cultural Response**

Organism	Growth	Incubation temperature	Incubation period	Inoculum (CFU)
<b>Growth promoting</b>				
<i>Salmonella</i> Abony NCTC 6017	luxuriant	30 -35 °C	18 -24 hrs	50 -100
<i>Streptococcus pneumoniae</i> ATCC 6305	luxuriant	30 -35 °C	18 -24 hrs	50 -100
<i>Candida albicans</i> ATCC 10231	luxuriant	20 -25 °C	<=5 d	50 -100
<i>Candida albicans</i> ATCC 2091	luxuriant	20 -25 °C	<=5 d	50 -100
* <i>Aspergillus brasiliensis</i> ATCC 16404	luxuriant	30 -35 °C	<=5 d	50 -100
<i>Pseudomonas aeruginosa</i> ATCC 9027	luxuriant	30 -35 °C	18 -24 hrs	50 -100
<i>Bacillus subtilis</i> ATCC 6633	luxuriant	30 -35 °C	18 -24 hrs	50 -100
<i>Micrococcus luteus</i> ATCC 9341	luxuriant	30 -35 °C	18 -24 hrs	50 -100
<i>Salmonella</i> Typhimurium ATCC 14028	luxuriant	30 -35 °C	18 -24 hrs	50 -100
<i>Escherichia coli</i> ATCC 25922	luxuriant	30 -35 °C	18 -24 hrs	50 -100
<i>Escherichia coli</i> NCTC 9002	luxuriant	30 -35 °C	18 -24 hrs	50 -100
<i>Pseudomonas aeruginosa</i> ATCC 27853	luxuriant	30 -35 °C	18 -24 hrs	50 -100
<i>Staphylococcus aureus</i> ATCC 25923	luxuriant	30 -35 °C	18 -24 hrs	50 -100
<i>Escherichia coli</i> ATCC 8739	luxuriant	30 -35 °C	18 -24 hrs	50 -100
<i>Staphylococcus aureus</i> ATCC 6538	luxuriant	30 -35 °C	18 -24 hrs	50 -100
<b>Sterility Testing- Growth promotion+ Validation</b>				
<i>Staphylococcus aureus</i> ATCC 25923	luxuriant	20 -25 °C	<=3 d	50 -100
<i>Escherichia coli</i> ATCC 8739	luxuriant	20 -25 °C	<=3 d	50 -100
<i>Escherichia coli</i> ATCC 25922	luxuriant	20 -25 °C	<=3 d	50 -100
<i>Escherichia coli</i> NCTC 9002	luxuriant	20 -25 °C	<=3 d	50 -100
<i>Pseudomonas aeruginosa</i> ATCC 9027	luxuriant	20 -25 °C	<=3 d	50 -100
<i>Pseudomonas aeruginosa</i> ATCC 27853	luxuriant	20 -25 °C	<=3 d	50 -100
<i>Micrococcus luteus</i> ATCC 9341	luxuriant	20 -25 °C	<=3 d	50 -100
<i>Salmonella</i> Abony NCTC 6017	luxuriant	20 -25 °C	<=3 d	50 -100
<i>Streptococcus pneumoniae</i> ATCC 6305	luxuriant	20 -25 °C	<=3 d	50 -100
<i>Bacillus subtilis</i> ATCC 6633	luxuriant	20 -25 °C	<=3 d	50 -100
<i>Salmonella</i> Typhimurium ATCC 14028	luxuriant	20 -25 °C	<=3 d	50 -100
<i>Staphylococcus aureus</i> ATCC 6538	luxuriant	20 -25 °C	<=3 d	50 -100

Key : \* - Formerly known as *Aspergillus niger*

## Storage and Shelf Life

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

## Reference

1. MacFaddin, J. F. 1985. Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria Vol. 1. Baltimore: Williams and Wilkins.

Please refer disclaimer Overleaf.

- 2.The United States Pharmacopoeia, 2014, The United States Pharmacopoeial Convention, Rockville, MD.
- 3.Indian Pharmacopoeia, 2014 Ministry of Health and Family Welfare, Govt. of India.
- 4.Forbes, B. A., Sahm, D. F . and Weissfield, A. S. 2002. Bailey and Scott's Diagnostic Microbiology. 11 ed. St Louis: The C.V. Mosby Co.

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