

TECHNICAL DATA SHEET

Aseptic Packing Line Medium (Aseptic Commissioning Medium)

Principle

Aseptic packing line medium is a basic medium used for validating and commissioning aseptic packing and filling lines. Media composed of peptone, yeast extract, sucrose, sodium chloride and phenol red. Peptone and yeast extract serve the simplest source of the nitrogen and other growth factors such vitamins. The sucrose serves the source of carbon and energy and sodium chloride balances the osmotic balance. Phenol red is pH indicator which detects the growth by acid or gas production. Due to sucrose utilization acid is products and reduced the pH of medium and changes its color from red-orange to yellow.

Use: An ideal medium used for validation of aseptic packing and filling lines.

Contents*

Ingredients	Gram/Liter
Peptone	5.000
Yeast Extract	2.500
Sucrose	5.000
Sodium Chloride	5.000
Phenol Red	0.005
pH at 25°C	7.2 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 17.50 grams in 1000 ml distilled water. Boil to dissolve the medium completely and distribute aseptically. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.

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Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Beige to pink colored free flowing, homogeneous powder
Reaction of 1.75% solution	7.2 ±0.2 at 25°C
pH	7.00- 7.40
Color and clarity of ready medium	Orange-red colored opalescent solution
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Prepare media as per the label directions. Inoculate (Inoculum 50-100 CFU) and incubate at 35 ± 2°C for 18-24h

Organism	ATCC no.	Growth	Acid production	Gas production
<i>Escherichia coli</i>	8739	Luxuriant	Negative (no color change)	Negative
<i>Staphylococcus aureus</i>	25923	Luxuriant	Positive (Yellow color)	Negative
<i>Klebsiella aerogenes</i>	13048	Luxuriant	Positive (Yellow color)	Positive
<i>Bacillus cereus</i>	10876	Luxuriant	Positive (Yellow color)	Negative

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Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. *Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.*
2. *Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.*
3. *Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), Standard methods for the examination of water and wastewater. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.*

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