



Aseptic Packing Line Medium

M1350

Aseptic Packing Line Medium is a fluid medium used in validating aseptic packing lines.

Composition**

Ingredients	Gms / Litre
Peptone	5.000
Yeast extract	2.500
Sucrose	5.000
Sodium chloride	5.000
Phenol red	0.005
Final pH (at 25°C)	7.2±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 17.50 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes containing inverted Durhams tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Aseptic Packing Line Medium is used in validating aseptic packing and filling lines. It is a basic medium for demonstrating growth by either acid or gas production.

Peptone and yeast extract provide basic nutrients. Sucrose is the carbohydrate source. Sodium chloride maintains osmotic balance. Phenol red is the pH indicator. Sucrose fermentation leads to the formation of acidic conditions which is detected by phenol red, observed as a colour change from red to yellow.

- Dispense the reconstituted medium into packing line upstream of the sterilization process.
- Incubate the filled packs at 30±2°C for upto 7 days.

Gas production is observed as trapped air bubbles in the Durhams tubes and acid production is visualized as a colour change of the medium to yellow. Growth is indicated as turbidity in the medium.

Quality Control

Appearance

Light yellow to light pink homogeneous free flowing powder

Colour and Clarity of prepared medium

Orange red coloured clear solution in tubes

Reaction

Reaction of 1.75% w/v aqueous solution at 25°C. pH : 7.2±0.2

pH

7.10-7.50

Cultural Response

M1350: Cultural characteristics observed after an incubation at 30±2°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth	Acid	Gas
Cultural Response <i>Bacillus cereus</i> ATCC 14579 50-100		luxuriant	positive reaction, yellow colour	negative reaction

<i>Enterobacter aerogenes</i> ATCC 13048	50-100	luxuriant	positive reaction, yellow colour	positive reaction
<i>Escherichia coli</i> ATCC 25922	50-100	luxuriant	negative reaction, no colour change	negative reaction
<i>Staphylococcus aureus</i> ATCC 25923	50-100	luxuriant	positive reaction, yellow colour	negative reaction

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 label.

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