



Mycological Peptone

RM006

Principle And Interpretation

Mycological Peptone is a mixture of animal and plant peptones required for obtaining luxuriant growth of fungi-yeasts and moulds. It is equivalent to Peptone M. It is recommended in culture media for isolation and diagnosis of pathogenic and nonpathogenic fungi and identification of saprophytic and dermatophytic fungi-yeasts and moulds. It is light yellow in colour and does not mask the appearance of media containing dyes and indicators. When dissolved in distilled water it produces light yellow coloured solution that remains clear even after autoclaving. It is also compatible with other media constituents and will not precipitate in media. 1.0% w/v solution of it, provides a broad spectrum of amino acids required for mycelial growth and sporulation. It is equivalent to Peptone M.

Quality Control

Appearance

Light yellow to brownish yellow homogenous free flowing powder, having characteristic but not putrescent odour.

Solubility

Freely soluble in distilled/purified water, insoluble in alcohol.

Clarity

1% w/v aqueous solution is clear without any haziness after autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Reaction

Reaction of 2% w/v aqueous solution at 25°C.

pH

6.50- 7.50

Microbial Load:

Total aerobic microbial count (cfu/gm)

By plate method when incubated at 30-35°C for not less than 3 days.

Bacterial Count : <= 2000 CFU/gram

Total Yeast and mould count (cfu/gm)

By plate method when incubated at 20-25°C for not less than 5 days.

Yeast & mould Count : <= 100 CFU/gram

Test for Pathogens

1. *Escherichia coli*- Negative in 10 gms of sample 2. *Salmonella* species-Negative in 10 gms of sample 3. *Pseudomonas aeruginosa*- Negative in 10 gms of sample 4. *Staphylococcus aureus*- Negative in 10 gms of sample 5. *Candida albicans*- Negative in 10 gms of sample 6. *Clostridia*- Negative in 10 gms of sample

Indole Test

Tryptophan content: Passes

Cultural response

Cultural response observed after an incubation at 25-30°C for 48-72 hours by preparing Malt Extract Agar (M137) using Mycological Peptone as an ingredient.

Cultural Response

Organism

Candida albicans ATCC 10231

Saccharomyces cerevisiae ATCC 9763

Aspergillus brasiliensis ATCC 16404

Growth

Luxuriant

Luxuriant

Luxuriant

Chemical Analysis

Total Nitrogen	$\geq 9.50\%$
Amino Nitrogen	$\geq 2.50\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 5.0\%$
Residue on ignition	$\leq 30\%$

Storage and Shelf Life

Store between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

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