Principle And Interpretation

Mycological peptone is a mixture of vegetable and plant peptones which is nutritious source for the isolation, cultivation and identification of saprophytic and dermatophytic fungi-yeast and moulds.

Quality Control

Appearance
Light yellow to yellow Homogenous Free flowing powder

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

Clarity
1% w/v aqueous solution remains clear without 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. E.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. C.albicans- Negative in 10 gms of sample
6. Clostridia- Negative in 10 gms of sample

Indole Test
Tryptophan content: Passes

Cultural Response

CR006: Cultural response observed after an incubation at 25-30°C for 48-72 hours by preparing Malt Extract Agar (M137) using Mycological Peptone, Certified as an ingredient.

Organism Growth

Candida albicans ATCC 10231 Luxuriant
Saccharomyces cerevisiae ATCC 9763 Luxuriant
Aspergillus brasiliensis ATCC 16404 Luxuriant

Please refer disclaimer Overleaf.
Chemical Analysis

- Total Nitrogen: >= 11.0%
- Amino Nitrogen: >= 4.50%
- Sodium chloride: <= 5.0%
- Loss on drying: <= 5.0%
- Residue on ignition: <= 13%

Storage and Shelf Life

Store below 30°C. Use before expiry date on the label.

Disclaimer:

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