



Peptonized SM Powder

RM275

Principle And Interpretation

Peptonized SM Powder is an enzymic digestion of high grade SM powder. It has high tryptophan content and is therefore used in media for testing the indole reaction. It serves as a source of nitrogen and also has high level of carbohydrate. Suitable for cultivation of Lactobacilli, yeasts and moulds. It is used on its own or in conjunction with other ingredients, in media for bacteriological examination of dairy products.

Quality Control

Appearance

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

Solubility

Freely soluble in distilled/purified water. Insoluble in alcohol and ether.

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

6.10- 7.10

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 is observed after an incubation at 35-37°C for 18-48 hours by preparing Universal Beer Agar (M415) using Peptonized SM Powder as an ingredient.

Cultural Response

Organism	Growth
<i>Acinetobacter calcoaceticus</i> ATCC 23055	Good-luxuriant
<i>Lactobacillus acidophilus</i> ATCC 4356	Good-luxuriant
<i>Lactobacillus fermentum</i> ATCC 9338	Good-luxuriant
<i>Proteus vulgaris</i> ATCC 13315	Fair-good

Chemical Analysis

Total Nitrogen	$\geq 6.0\%$
Amino Nitrogen	$\geq 1.50\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 5.0\%$
Residue on ignition	$\leq 12.0\%$

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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