



Combipectone

RM10941

Principle And Interpretation

Combipectone is manufactured under controlled condition by mixing Tryptone and Yeast extract in ratio of 65:35. It is highly nutritious as it has nutritional benefit of synergistic effect of two or more components. It provides carbon, nitrogen, long chain amino acids and vitamins, especially B group vitamins. In addition yeast extract components provides carbohydrates, proteins and some micronutrients.

It is used as media components in various microbiological media. It is also recommended for mass cultivation of microorganisms and fermentation applications.

Quality Control

Appearance

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

Solubility

Freely soluble in distilled 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

6.50- 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 : \leq 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 : \leq 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 incubation for bacterial at 35 - 37°C for 18-24 hours and for fungal at 20-25°C for not less than 5 days by preparing Soyabean Casein Digest Agar (M290), using Combipectone as an ingredient.

Cultural Response

Organism	Growth
Cultural response	
<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant
<i>Staphylococcus aureus</i> ATCC 6538	Luxuriant
<i>Escherichia coli</i> ATCC 25922	Luxuriant
<i>Escherichia coli</i> ATCC 8739	Luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant
<i>Bacillus subtilis</i> ATCC 6633	Luxuriant
<i>Salmonella</i> Typhi ATCC 6539	Luxuriant

<i>Pseudomonas aeruginosa</i> ATCC 27853	Luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 9027	Luxuriant
<i>Candida albicans</i> ATCC 10231	Luxuriant
* <i>Aspergillus brasiliensis</i> ATCC 16404	Luxuriant

Key: * Formerly known as *Aspergillus niger*.

Chemical Analysis

Total Nitrogen	>= 11.50%
Amino Nitrogen	>= 4.50%
Sodium chloride	<= 5.0%
Loss on drying	<= 6.0%
Residue on ignition	<= 15.0%

Storage and Shelf Life

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



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