



## Peptone Special

RM015

### Principle And Interpretation

Peptone special is specifically designed to maximize the growth of fastidious microorganisms. It is used to prepare culture media for cultivation of Neisseria, Yersinia, Staphylococci & Enterococci.

### Quality Control

#### Appearance

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

#### 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

6.10- 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 observed with added 5% w/v sterile defibrinated blood after an incubation at 35-37°C for 24-48 hours by preparing Columbia Agar Base (M144) using Peptone Special as an ingredient.

#### Cultural Response

Organism	Growth	Haemolysis
<i>Neisseria meningitidis</i> ATCC 13090	Luxuriant	none
<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant	beta / gamma
<i>Staphylococcus epidermidis</i> ATCC 12228	Luxuriant	gamma
<i>Streptococcus pneumoniae</i> ATCC 6303	Luxuriant	alpha
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant	beta

**Chemical Analysis**

Total Nitrogen	>= 12.0%
Amino Nitrogen	>= 3.80%
Sodium chloride	<= 5.0%
Loss on drying	<= 5.0%
Residue on ignition	<= 15.0%

**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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