



Peptone Special

RM015

It is used to prepare culture media for cultivation of Neisseria, Yersinia, Staphylococci & Streptococci. It can also be used for cultivation of other fastidious bacteria on a large scale.

Principle And Interpretation

Peptone Special is an enzymatic digest of animal tissues specifically designed to maximize the growth of fastidious microorganisms. High quality pure beef used for preparing this peptone is carefully processed to ensure consistent growth characteristics when used in differential media.

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. 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

Cultural response observed after an incubation at 35-37°C for 40-48 hours by preparing Columbia Agar Base (M144) using Peptone Special as an ingredient.

Cultural Response

Organism	Growth	Haemolysis
Cultural response <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	$\geq 12.0\%$
Amino Nitrogen	$\geq 3.80\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 5.0\%$
Residue on ignition	$\leq 15.0\%$

Storage and Shelf Life

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

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