



Tryptone-D, Type IV

RM193

Principle And Interpretation

It is manufactured by controlled enzymatic hydrolysis of casein. It is recommended for use in number of media such as diagnostic media and is suitable to be used for vaccine production.

Quality Control

Appearance

Off white to light 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

6.10- 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 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 Tryptone-D, Type IV as an ingredient.

Cultural Response

Organism	Growth
<i>Bacillus subtilis</i> ATCC 6633	Luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant
<i>Escherichia coli</i> ATCC 25922	Luxuriant
<i>Escherichia coli</i> ATCC 8739	Luxuriant
<i>Escherichia coli</i> NCTC 9002	Luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	Luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 9027	Luxuriant
<i>Salmonella</i> Abony NCTC 6017	Luxuriant

<i>Micrococcus luteus</i> ATCC 9341	Luxuriant
<i>Streptococcus pneumoniae</i> ATCC 6303	Luxuriant
<i>Salmonella Typhimurium</i> ATCC 14028	Luxuriant
<i>Candida albicans</i> ATCC 10231	Luxuriant
<i>Candida albicans</i> ATCC 2091	Luxuriant
* <i>Aspergillus brasiliensis</i> ATCC 16404	Luxuriant

Key: * Formerly known as *Aspergillus niger*.

Chemical Analysis

Total Nitrogen	$\geq 11.0\%$
Amino Nitrogen	$\geq 4.0\%$
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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