



## Fish Peptone

RM2580

It is suitable for pharmaceutical and vaccine production to reduce Bovine Spongiform Encephalopathy(BSE) risk.

### Principle And Interpretation

Fish peptone is non-mammalian peptone, used as a nitrogen source in microbiological culture media. It is a non-bovine origin peptone, free of TSE/BSE risk.

### Quality Control

#### Appearance

Yellow to brown homogenous free flowing powder, having characteristic odour of protein.

#### 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

6.00- 7.00

#### 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 characteristics observed after an incubation at 35-37°C for 40-48 hours by preparing Bismuth Sulphite Agar (M027) using Fish peptone as an ingredient.

#### Cultural Response

Organism	Growth	Colour of Colony
<i>Enterobacter aerogenes</i> ATCC 13048	none-poor	brown-green (depends on the inoculum density)
<i>Enterococcus faecalis</i> ATCC 29212	inhibited	
<i>Escherichia coli</i> ATCC 25922	none-poor	brown-green (depends on the inoculum density)
<i>Salmonella Enteritidis</i> ATCC 13076	good-luxuriant	black with metallic sheen

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<i>Salmonella Typhi</i> ATCC 6539	good-luxuriant	black with metallic sheen
<i>Salmonella Typhimurium</i> ATCC 14028	good-luxuriant	black with metallic sheen
<i>Shigella flexneri</i> ATCC 12022	none-poor	brown
<i>Escherichia coli</i> ATCC 8739	none-poor	brown to green, depends on inoculum density

### Chemical Analysis

Total Nitrogen	$\geq 12.50\%$
Amino Nitrogen	$\geq 3.50\%$
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.

### Disclaimer :

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