



Soya Peptone-UF

RM10418

Principle And Interpretation

Soya Peptone, UF is manufactured under controlled conditions. It is prepared by action of enzyme papain on soyabean meal which is then followed by purification and spray drying. Soya peptone, UF is highly nutritious and promotes growth of bacteria, fungi and fastidious organisms.

Quality Control

Appearance

Light yellow Brownish yellow, may have a slight green, homogenous free flowing powder, having characteristic odour of protein, derived from vegetable source.

Solubility

Freely soluble in distilled/purified water, insoluble in chloroform.

Clarity

1% w/v aqueous solution remains clear without haziness after autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Reaction

Reaction of 2% w/v aqueous solution at 25°C.

pH

5.50- 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 : ≤ 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

Cultural response

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing HIVEG Soyabean Casein Digest Medium (MV011) and Soyabean Casein Digest Medium (M011) using Soya Peptone-UF as an ingredient.

Cultural Response

Organism	Growth
Cultural response <i>Escherichia coli</i> ATCC 25922	Luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	Luxuriant
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant
<i>Salmonella Typhi</i> ATCC 6539	Luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant

Streptococcus pyogenes ATCC19615 Luxuriant

Neisseria gonorrhoea ATCC 13090 Luxuriant

Chemical Analysis

Total Nitrogen	$\geq 7.50\%$
AminoNitrogen	$\geq 1.80\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 5.0\%$
Residue on ignition	$\leq 12\%$
Endotoxin(1% Solution)	$\leq 1\text{EU/ml}$

Storage and Shelf Life

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



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