



Fish Collagen,95%

RM10939

Principle And Interpretation

Fish collagen,95% is manufactured under controlled conditions to extract proteins from fish skin and scales. It is non-toxic and alternative to animal collagen. Fish collagen is most widely used in cosmetics. It is also used for arthritis treatment. It is easily digestible and dissolves without difficulty in water. Due to its restorative health benefits, it is often used in health food, drinks, supplements and medication for intestinal illness.

Quality Control

Appearance

Off-white to yellow homogenous free flowing powder, having characteristic odour but not putrescent.

Solubility

Freely soluble in distilled/purified 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 is

pH

5.5 - 7.5

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 : \leq 250 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 : \leq 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

Chemical Analysis

Total Nitrogen	\geq 17.4%
Total Protein	\geq 95.2% (Conversion factor as 5.5)
Amino Nitrogen	\geq 1.0%
Sodium chloride	\leq 1.0%
Loss on drying	\leq 8.0%
Residue on ignition	\leq 5.0%

Storage and Shelf Life

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



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