



Gelatin Hydrolysate

RM020H

Principle And Interpretation

Gelatin hydrolysate is prepared by enzymic digestion of gelatin. It is used in microbiological culture media, biological products and mass cultivation of organisms.

Quality Control

Appearance

Yellow to brownish yellow homogenous free flowing powder, having characteristic odour but not putrescent.

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

6.50- 7.75

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

Following organisms are absent per 10 grams of sample.

1. *Escherichia coli*
2. *Salmonella* species
3. *Pseudomonas aeruginosa*
4. *Staphylococcus aureus*
5. *Candida albicans*
6. *Clostridia*

Cultural response

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing Nutrient Agar (M001) using Gelatine Hydrolysate as an ingredient.

Cultural Response

Organism	Growth
<i>Escherichia coli</i> ATCC 25922 (WDCM00013)	Luxuriant
<i>Pseudomonas aeruginosa</i> ATCC (WDCM 00025)	Luxuriant
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (WDCM 00034)	Luxuriant
<i>Salmonella enterica</i> serovar Typhi ATCC 6539	Luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant
<i>Salmonella enterica</i> serovar Enteritidis ATCC 13076 (WDCM 00030)	Luxuriant

<i>Salmonella enterica</i> serovar Typhimurium ATCC 14028 (WDCM00031)	Luxuriant
<i>Yersinia enterocolitica</i> ATCC 9610 (WDCM 00038)	Luxuriant
<i>Yersinia enterocolitica</i> ATCC 23715 (WDCM 00160)	Luxuriant

Chemical Analysis

Total Nitrogen	$\geq 12.25\%$
Amino Nitrogen	$\geq 2.50\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 5.0\%$
Residue on ignition	$\leq 10\%$

Storage and Shelf Life

Store between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

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