

**HiMedia Laboratories Private Limited**

C-40, Road No.21Y, MIDC, Wagle Ind. Area,Thane(W) - 400604

Website : www.himedialabs.com, Email : info@himedialabs.com

**Certificate of Analysis , Quality and Conformity**

| <b>Material Code : RM714</b>   | <b>Material Name :</b><br>Casitose  | <b>Lot No : 0000599242</b>                    |
|--|---|---|
| <b>AR No.: 40001382675</b>   | <b>Date of Report : 2023-08-08</b>  | <b>Exp. Date : 2028-06</b>                    |
| <b>TEST</b>  | <b>SPECIFICATIONS</b>   | <b>RESULTS</b>                                |
| <b><u>Appearance</u></b><br>1 Colour of powder<br>2 Nature<br>3 Consistency<br>4 Odour   | Off white to light yellow<br>Homogenous<br>Free flowing powder<br>Characteristic odour but not putrescent   | Off white<br>Complies<br>Complies<br>Complies |
| <b><u>Solubility</u></b><br>1 Solubility   | Freely soluble in distilled/purified water,<br>insoluble in alcohol and eth er.   | Complies                                      |
| <b><u>Clarity</u></b><br>1 Clarity   | 1% w/v aqueous solution remains clear<br>without haziness after autoclaving at 15 lbs<br>pressure (121°C) for 15 minutes.   | Complies                                      |
| <b><u>pH</u></b><br>1 pH of 2% w/v aqueous solution at<br>25°C   | 6.50 - 7.50   | 7.13  |
| <b><u>Microbial Load</u></b><br>1 Total aerobic microbial count<br>(cfu/gm)<br>2 total aerobic microbial count<br>(cfu/gm)<br>3 Total yeast and mold count<br>(cfu/gm)<br>4 total yeast and mold count<br>(cfu/gm) | By plate method, when incubated at<br>30-35°C for not less than 3 days.<br>≤ 2000<br>By plate method, when incubated at<br>20-25°C for not less than 5 days.<br>≤ 100   | -<br>13<br>-<br>7                             |
| <b><u>Test for pathogens</u></b><br>1 Test for pathogens   | 1. Escherichia coli- Absent/gram of sample<br>2. Salmonella species- Absent/10 gram of<br>sample 3. Pseudomonas aeruginosa-<br>Absent/gram of sample 4. Staphylococcus<br>aureus- Absent/gram of sample 5. Candida<br>albicans- Absent/gram of sample 6.<br>Clostridia- Absent/gram of sample | Absent  |
| <b><u>Indole Test</u></b><br>1 Indole  | Tryptophan content: Passes  | Complies                                      |

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| TEST   | SPECIFICATIONS  | RESULTS                                    |
|--|---|--|
| <u>Cultural response</u><br>1 Cultural response  | Cultural response observed after incubation at 35-37°C for 18 - 24 hours by preparing Plate Count Agar (M091) using Casitose, as an ingredient. |  |
| <u>Bacillus subtilis subsp. Spizizenii ATCC 6633 (WDCM 00003)</u><br>1 Growth  | Luxuriant   | Complies                                   |
| <u>Enterococcus faecalis ATCC 29212 (WDCM 00087)</u><br>1 Growth   | Luxuriant   | Complies                                   |
| <u>Escherichia coli ATCC 25922 (WDCM 00013)</u><br>1 Growth  | Luxuriant   | Complies                                   |
| <u>Lactobacillus rhamnosus ATCC 9595</u><br>1 Growth   | Luxuriant   | Complies                                   |
| <u>Staphylococcus aureus subsp. aureus ATCC 25923 (WDCM 00034)</u><br>1 Growth   | Luxuriant   | Complies                                   |
| <u>Streptococcus pyogenes ATCC 19615</u><br>1 Growth   | Luxuriant   | Complies                                   |
| <u>Chemical Analysis</u><br>1 Total Nitrogen<br>2 Amino Nitrogen<br>3 Sodium chloride<br>4 Loss on drying<br>5 Residue on ignition | ≥ 12%<br>≥ 4%<br>≤ 5%<br>≤ 5%<br>≤ 15%  | 12.97%<br>4.52%<br>1.71%<br>4.55%<br>8.45% |

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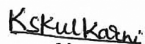
| TEST | SPECIFICATIONS | RESULTS |
|------|----------------|---------|
|------|----------------|---------|

Information for BSE/TSE Risk The material was subjected to pH  $\leq$  7.0 and/or a temperature in excess of 75°C for no less than 2 hours during the manufacturing process. The bovine raw material for this product was collected entirely from Indian Origin animals in a licensed based establishment. The animals are inspected under a Govt. approved veterinarian's supervision and were apparently free from infectious and contagious diseases. BSE (Bovine Spongiform Encephalopathy)/ TSE (Transmissible Spongiform Encephalopathy) and dioxine are not known to exist in India. This material does not contain, nor is derived from the specific risks material as defined in The Maharashtra Animal Preservation Act Govt. of Maharashtra, India.

**STATUS OF THE MATERIAL : APPROVED**

This is to certify that this lot passes and it confirms to the above mentioned tests and specifications . The information given here is believed to be correct and accurate, however, both the information and products are offered without warranty for any particular use, other than that specified in the current HiMedia manual or product sheets.

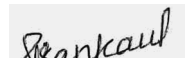
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