



# Certificate of Analysis

|                                 |   |
|---------------------------------|---|
| <b>Product</b>                  | <b>23136 - Peptone Granulated BactoBio for bacteriology</b> |
| <b>Batch No</b>                 | <b>8030333</b>  |
| <b>Analysis Date</b>            | 16-Jun-2024   |
| <b>Date of Manufacture</b>      | June 2024   |
| <b>Expiry Date/Re-Test Date</b> | June 2027   |

| Test Parameters                     | Standards  | Actual Results |
|-------------------------------------|--|----------------|
| Appearance (Colour)                 | Light to medium tan  | Complies       |
| Appearance (Form)                   | Free flowing, granules   | Complies       |
| Solubility (Colour) 2% aq. solution | Light to medium amber, clear   | Complies       |
| pH (25°C)                           | 7.0 ± 0.2 (2%)   | 7.15 Complies  |
| Stability (After autoclaving)       | Light to medium amber, clear   | Complies       |
| Loss on drying                      | < 5.0%   | 4.85% Complies |
| Nitrogen (N) content                | 11.5 - 15.5 %  | Complies       |
| Ash                                 | < 10%  | Complies       |
| NaCl                                | < 5.0%   | Complies       |
| Total Aerobic microbial count       | ( By plate count method ) : < 10, 000 cfu/gm   | Complies       |
| Total Yeast and Mould count         | (By plate count method) : < 100 cfu/gm   | Complies       |
| Cultural Response                   | Growth Promoting Properties :<br>Inoculate and incubate at 37°C for 18 - 48 hours with following organisms |                |
| Organism                            | Escherichia coli ATCC 25922  |                |
| Inoculum (cfu) 10-100               | Growth : Good  | Complies       |
| Organism                            | Staphylococcus aureus ATCC 25923   |                |
| Inoculum (cfu) 10-100               | Growth : Good  | Complies       |
| Organism                            | Pseudomonas aeruginosa ATCC 27853  |                |
| Inoculum (cfu) 10-100               | Growth : Good  | Complies       |
| Organism                            | Enterobacter aerogenes ATCC 13048  |                |
| Inoculum (cfu) 10-100               | Growth : Good  | Complies       |
| Indole Production (0.1%)            | Escherichia coli ATCC 25922<br>Growth : Good, Result : Positive  | Complies       |
| Hydrogen Sulphide Production (1.0%) | Salmonella typhimurium ATCC 14028<br>Growth : Good, Result : Positive                                      | Complies       |
| Fermentable carbohydrates (2%)      | Escherichia coli ATCC 25922<br>Growth : Good, Result : Negative  | Complies       |
| Acetylmethylcarbinol Production     | (0.1% peptone w/0.5% Dextrose)<br>Enterobacter aerogenes ATCC 13048<br>Growth : Good, Result : Positive    | Complies       |