Certificate of Analysis (CoA)

Product Name: Bacillus coagulans (Probiotic Powder)

Batch No: BC-2305-PK

Manufacturing Date: 2025-03-15

Expiry Date: 2027-03-14

Storage Conditions: Store in a cool, dry place at ≤25°C

Manufacturer: BioProbiotics Inc., USA

Country of Origin: USA

# Analytical Test Results

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Specification | Results | Method Used |
| Appearance | Off-white to light yellow powder | Complies | Visual Inspection |
| Identification | Positive for Bacillus coagulans | Positive | PCR (16S rRNA) |
| Viable Count (CFU/g) | ≥ 2 × 10¹⁰ CFU/g | 2.5 × 10¹⁰ CFU/g | Plate Count (USP <61>) |
| pH (1% w/v solution) | 5.5 – 7.0 | 6.2 | USP <791> |
| Loss on Drying | NMT 5.0% | 3.1% | USP <731> |
| Lead (Pb) | NMT 3.0 ppm | 1.2 ppm | ICP-MS |
| Arsenic (As) | NMT 1.0 ppm | 0.35 ppm | ICP-MS |
| Cadmium (Cd) | NMT 1.0 ppm | 0.42 ppm | ICP-MS |
| Mercury (Hg) | NMT 0.1 ppm | 0.05 ppm | ICP-MS |
| TAMC | NMT 1000 CFU/g | 580 CFU/g | USP <61> |
| TYMC | NMT 100 CFU/g | 10 CFU/g | USP <61> |
| Escherichia coli | Absent / g | Absent | USP <62> |
| Salmonella spp. | Absent / 10 g | Absent | USP <62> |
| Staphylococcus aureus | Absent / g | Absent | USP <62> |
| Residual Solvents | As per ICH Q3C Guidelines | Complies | GC-MS |
| Gluten | NMT 20 ppm | <5 ppm | ELISA |
| GMO Status | Non-GMO | Complies | PCR Analysis |

The above product complies with internal specifications and relevant pharmacopeial limits. This material is suitable for human consumption when used as a raw material in probiotic dietary supplements or food-grade formulations.

Authorized By: Dr. Lisa Werner

Quality Control Manager

BioProbiotics Inc.

Date: 2025-03-20