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## Product Master Specification

|                            |                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------|
| Item Name                  | Magnesium Bisglycinate Chelate Buffered DC Granular Nutrition Grade (~14% Mg)                       |
| Product Code               | NIGEMIN1005181                                                                                      |
| Product Type               | Minerals                                                                                            |
| Issue Date                 | 22-Jul-2026                                                                                         |
| Version                    | V01                                                                                                 |
| QA Status                  | Final Approved                                                                                      |
| Intended use               | Food use                                                                                            |
| Test                       | Specification                                                                                       |
| Organoleptic               |                                                                                                     |
| Appearance                 | White or off white granular                                                                         |
| Characteristics            |                                                                                                     |
| Identification             | It responds to the tests for magnesium and for glycine                                              |
| Assay                      | ≥ 14.0 % Magnesium                                                                                  |
| Irradiation                | Free                                                                                                |
| GMO                        | Free                                                                                                |
| BSE/TSE                    | Free                                                                                                |
| Physical/Chemical          |                                                                                                     |
| Particle Size              | NMT 10% passing through 80 mesh<br>NLT 85% passing through 20-80 mesh<br>NMT 5% retained on 20 mesh |
| Loss on Drying             | ≤ 10.00 %                                                                                           |
| Loose Density              | NLT 0.55g/ml                                                                                        |
| Tapped Density             | NLT 0.75g/ml                                                                                        |
| Heavy Metals               |                                                                                                     |
| Heavy Metals Total         | ≤ 10.00 ppm                                                                                         |
| Lead (Pb)                  | ≤ 3.00 ppm                                                                                          |
| Arsenic (As)               | ≤ 1.00 ppm                                                                                          |
| Cadmium (Cd)               | ≤ 1.00 ppm                                                                                          |
| Mercury (Hg)               | ≤ 0.10 ppm                                                                                          |
| Microbiological            |                                                                                                     |
| Total Plate Count          | < 1,000 cfu/g                                                                                       |
| Yeast and Mould            | < 100 cfu/g                                                                                         |
| Escherichia coli (E. coli) | Negative                                                                                            |
| Salmonella                 | Negative                                                                                            |

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| <b>Staphylococcus aureus</b>                                | Negative                                                                                                                                                                                                                                                                                      |
| <b>Bile Tolerant gram negative Bacteria</b>                 | < 100 cfu/g                                                                                                                                                                                                                                                                                   |
| <b>Storage &amp; Handling</b>                               |                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>                                              | Store in a clean, cool, dry place at 5 - 25°C. Protect from humidity (RH < 60) and sunlight.                                                                                                                                                                                                  |
| <b>Preparation and/or handling before use or processing</b> | Please ask our QA department for detailed instructions.                                                                                                                                                                                                                                       |
| <b>Transportation</b>                                       | Transportation suitable for dried food powders.                                                                                                                                                                                                                                               |
| <b>Packaging</b>                                            | All packaging meets EU regulations.                                                                                                                                                                                                                                                           |
| <b>Shelf Life</b>                                           | 2 years from manufacture if stored according to conditions above.                                                                                                                                                                                                                             |
| <b>Approved by</b>                                          | Quality Department                                                                                                                                                                                                                                                                            |
| <b>Signed By</b>                                            | Eliza Lawrence                                                                                                                                                                                                                                                                                |
| <b>Disclaimer</b>                                           | All batches are fully in line with all requirements of the agreed specifications as standard, however not all parameters are tested per batch all of the time. Nutraceuticals Group guarantee all batches.                                                                                    |
| <b>Template Version</b>                                     | NGEMNSPEC202408a                                                                                                                                                                                                                                                                              |
| <b>Nutritional (Typical) / 100g</b>                         |                                                                                                                                                                                                                                                                                               |
| <b>General Information</b>                                  | While Nutraceuticals Group strives to provide comprehensive information about all ingredients, the specific nutritional data for this product is currently not available. We recommend conducting further analysis if precise nutritional information is required for your product labelling. |