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## Product Master Specification

|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| Item Name                  | Silver Birch Leaf Extract 1% Hyperosides ~4:1 (Betula pendula Roth.)                           |
| Product Code               | NIGEHER1357805                                                                                 |
| Product Type               | Herbal Extracts                                                                                |
| Issue Date                 | 28-Aug-2026                                                                                    |
| Version                    | V01                                                                                            |
| QA Status                  | Final Approved                                                                                 |
| Intended use               | Food use                                                                                       |
| Test                       | Specification                                                                                  |
| Organoleptic               |                                                                                                |
| Appearance                 | Brown, fine powder                                                                             |
| Odour and Taste            | Characteristic                                                                                 |
| Latin Name                 | Betula pendula Roth.                                                                           |
| Parts Used                 | Leaf                                                                                           |
| Method of production       | Solvent Extraction -Water / Ethanol (60/40 V/V)                                                |
| Identification             | Positive (TLC may be performed on the extract or on the half-processed product or on the drug) |
| Extract Ratio              | 3/4:1 (indicative)                                                                             |
| Assay                      | ≥1.0% total flavonoids calculated as hyperoside                                                |
| Irradiation                | Free                                                                                           |
| GMO                        | Free                                                                                           |
| BSE/TSE                    | Free                                                                                           |
| Particle Size              | ≥ 90% through sieve nr.500                                                                     |
| Bulk Density               | about 0.5 g/ml                                                                                 |
| Loss on drying             | ≤ 5.00 %                                                                                       |
| Heavy Metals               |                                                                                                |
| Heavy Metals Total         | ≤ 10.00 ppm                                                                                    |
| Lead (Pb)                  | ≤ 3.00 ppm                                                                                     |
| Arsenic (As)               | ≤ 1.00 ppm                                                                                     |
| Mercury (Hg)               | ≤ 0.10 ppm                                                                                     |
| Microbiological            |                                                                                                |
| Total Plate Count          | ≤ 10,000 cfu/g                                                                                 |
| Yeast and Mould            | ≤ 100 cfu/g                                                                                    |
| Enterobacteriaceae         | ≤ 100 cfu/g                                                                                    |
| Escherichia coli (E. coli) | Not detected / g                                                                               |

|                                                             |                                                                                                                                                                                                                                                                                               |
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| <b>Salmonella</b>                                           | Not detected / 25g                                                                                                                                                                                                                                                                            |
| <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>                                            | Shehara Premachandra                                                                                                                                                                                                                                                                          |
| <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. |