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# QUALITY SPECIFICATION

## Wolfberry Extract

Catalog No.: NST-8-22

CAS No.: 85085-46-7

Source: *Lycium barbarum* L.

Part used: berry

Solvent used: water and ethanol

Carrier: 10.0 % – 20.0 % Maltodextrin

Shelf life: 24 months

| No. | Parameter               | Specification      | Method          |
|-----|-------------------------|--------------------|-----------------|
| 1.  | Appearance              | Fine powder        | Visual          |
| 2.  | Color                   | Brown              | Visual          |
| 3.  | Identification          | Conforms           | TLC             |
| 4.  | Assay (Polysaccharides) | ≥50.0 %            | UV              |
| 5.  | Odor                    | Characteristic     | Organoleptic    |
| 6.  | Taste                   | Characteristic     | Organoleptic    |
| 7.  | Sulfated ash            | ≤9.0 %             | Ph. Eur. 2.4.14 |
| 8.  | Loss on drying          | ≤9.0 %             | Ph. Eur. 2.8.17 |
| 9.  | Mesh size/sieve         | ≥95 % pass 80 mesh | 80 mesh         |
| 10. | Bulk density            | ≤0.8 g/ml          | Density meter   |
| 11. | Solvent residues        | Ph. Eur. 2.4.24    | Ph. Eur. 2.4.24 |
| 12. | Pesticide residues      | EC 396/2005        | Third lab       |
| 13. | Ethylene oxide          | EC 396/2005        | HACCP           |
| 14. | Benzo[a]pyrene          | (EU) 2023/915      | HPLC            |

|     |                              |                        |          |
|-----|------------------------------|------------------------|----------|
| 15. | PAHs                         | (EU) 2023/915          | HPLC     |
| 16. | Heavy Metals                 | ≤10 ppm                | ICP-MS   |
| 17. | Lead                         | ≤2 ppm                 | ICP-MS   |
| 18. | Arsenic                      | ≤1 ppm                 | ICP-MS   |
| 19. | Mercury                      | ≤0.1 ppm               | ICP-MS   |
| 20. | Cadmium                      | ≤1 ppm                 | ICP-MS   |
| 21. | TPC                          | <10 <sup>3</sup> CFU/g | AOAC,BAM |
| 22. | TYMC                         | <10 <sup>2</sup> CFU/g | AOAC,BAM |
| 23. | <i>Escherichia Coli</i>      | Absent                 | AOAC,BAM |
| 24. | <i>Salmonella</i>            | Absent                 | AOAC,BAM |
| 25. | <i>Staphylococcus aureus</i> | Absent                 | AOAC,BAM |

Storage: store in a cool and dry place, keep away from strong light and heat

Stability: 24 months when properly stored