



|                         |                            |
|-------------------------|----------------------------|
| <b>Product Name</b> :   | <b>Ashwagandha Extract</b> |
| <b>Botanical Name</b> : | <b>Withania Somnifera</b>  |
| <b>Product Code</b> :   | <b>WSN</b>                 |
| <b>HER</b> :            | <b>10:1</b>                |
| <b>Part Used</b> :      | <b>Whole Plant</b>         |

| S. No.     | Protocols of test               | Test Methods   | Standard to which Compared                |
|------------|---------------------------------|----------------|-------------------------------------------|
| <b>1.0</b> | <b>Description</b>              |                |                                           |
| a.         | Appearance                      | Organoleptic   | Cream to light brown color powder         |
| b.         | Colour                          | Organoleptic   | Cream to light brown                      |
| c.         | Odour                           | Organoleptic   | Characteristics                           |
| d.         | Taste                           | Organoleptic   | Characteristics                           |
| <b>2.0</b> | <b>Analytical Data</b>          |                |                                           |
| a.         | Identification                  | By TLC (IH)    | Presence of Total Withanolides - positive |
| b.         | Loss on drying (At 105°C)       | IP 2014        | NMT. 5.0%                                 |
| c.         | Total Ash                       | IP 2014        | NMT. 10.0%                                |
| d.         | pH (1% w/v solution )           | IP 2014        | 5-7                                       |
| e.         | Bulk Density                    | IP 2014        | NLT. 0.25 gm/ml                           |
| f.         | Tapped Density                  | IP 2014        | NLT. 0.30 gm/ml                           |
| g.         | Particle Size                   | Sieve          | NLT. 95% Passes through 40 Mesh           |
| <b>3.0</b> | <b>Assay (On dry wt. Basis)</b> |                |                                           |
| a.         | Free Withanolides               | <b>By HPLC</b> | NLT 2.5.0%                                |
| <b>4.0</b> | <b>Heavy Metals</b>             |                |                                           |
| a.         | Lead                            | ICP-MS         | NMT 2.0 ppm                               |
| b.         | Arsenic                         | ICP-MS         | NMT 2.0 ppm                               |
| c.         | Cadmium                         | ICP-MS         | NMT 0.3 ppm                               |
| d.         | Mercury                         | ICP-MS         | NMT 0.1 ppm                               |
| <b>5.0</b> | <b>Microbiological Test</b>     |                |                                           |
| a.         | Total Plate Count               | USP <2021>     | NMT. 1000 cfu/gm.                         |
| b.         | Yeast/Moulds/Fungi              | USP <2021>     | NMT. 100 cfu/gm                           |
| c.         | E. coli                         | USP <2022>     | Absent                                    |
| d.         | Salmonella                      | USP <2022>     | Absent / 10 gm                            |
| e.         | Staphylococcus aureus           | USP <2022>     | Absent                                    |

**Storage Condition:** - Store at cool, dry place away from light & moisture.

**Shelf Life:** - 3 Years in original packed conditions from the date of mfg.

**Packaging:** - 25 Kgs. Suitable Packed in double Poly bags.