

### PRODUCT SPECIFICATION

|                            |                           |  |                                 |
|----------------------------|---------------------------|--|---------------------------------|
| <b>INCI/Botanical Name</b> | <i>VACCINUM MYRTILLUS</i> | <b>Common Name</b>   | Bilberry (Anthocyanins) Extract |
| <b>Parts of Plant</b>      | Berries                   | <b>Reference Standard</b>                                      | ---                             |
| <b>Extraction solvent</b>  | Water & Ethanol           | <b>Carrier</b>   | ---                             |
| <b>Color Shade</b>         | Dark Purple               | <b>Color Code</b>  | ---                             |
| <b>Batch Size</b>          | 1000kg                    | <b>Expiry</b>  | July- 2027                      |
| <b>Origin</b>              | India/China               | <b>CAS No</b>  | 84082-34-8                      |
| <b>HSN Code</b>            | 12122990                  | <b>Application &amp; Uses:</b> Food/Pharmaceutical/Cosmetology |                                 |

| TEST | SPECIFICATION | METHOD |
|------|---------------|--------|
|------|---------------|--------|

|                                  |                     |              |
|----------------------------------|---------------------|--------------|
| <b>A. Physical Parameters:</b>   |                     |              |
| <b>Appearance</b>                | Free flowing powder | Visual       |
| <b>Color</b>                     | Dark-Purple         | Organoleptic |
| <b>Odor</b>                      | Characteristics     | Organoleptic |
| <b>Taste</b>                     | Characteristics     | Organoleptic |
| <b>Loss On Drying</b>            | NMT 5.0%w/w         | USP 731      |
| <b>Total Ash</b>                 | NMT 5.0%w/w         | USP 281      |
| <b>Particle size ( 80 mesh )</b> | NMT 98%w/w          | USP 786      |
| <b>Bulk Density</b>              | 40-60g/100ml        | CP2015       |
| <b>Tap Density</b>               | 60-90/100ml         | CP2015       |

|                               |              |    |
|-------------------------------|--------------|----|
| <b>B. Active Ingredients:</b> |              |    |
| <b>Anthocyanidins</b>         | NLT 25.0%w/w | UV |

|                        |              |                  |
|------------------------|--------------|------------------|
| <b>C. Heavy Metals</b> |              |                  |
| <b>Lead (PB)</b>       | NMT 2.0mg/kg | GB/T5009.12.2003 |
| <b>Arsenic (AS)</b>    | NMT 1.0mg/kg | GB/T5009.11.2003 |
| <b>Cadmium (CD)</b>    | NMT 1.0mg/kg | GB/T5009.17.2003 |
| <b>Mercury (Hg)</b>    | NMT 1.0mg/kg | GB/T5009.15.2003 |

|                                     |                |             |
|-------------------------------------|----------------|-------------|
| <b>D. Microbiological Test:</b>     |                |             |
| <b>Total Plate Count</b>            | NMT 1000 cfu/g | AOAC 990.12 |
| <b>Total Yeast &amp; Mold Count</b> | NMT 100 cfu/g  | AOAC 997.02 |

|                              |          |              |
|------------------------------|----------|--------------|
| <b>E. Pathogen</b>           |          |              |
| <b>Escherichia Coli</b>      | Negative | AOAC 991.14  |
| <b>Salmonella</b>            | Negative | AOAC 998.09  |
| <b>Staphylococcus aureus</b> | Negative | AOAC 2003.07 |

**F. Other:**  
 Standard Packing: 25 Kg in single HDPE Container.  
 The material is free from Allergens / GMO/ BSE - TSE.  
 The material is not tested on animals.  
 The material is non-irradiated & not treated with ETO.  
 The above material complies with in-house specifications.  
 Store in a cool and dry place away from sunlight and heat. The preferred storage is below 30°C.  
**THE PRODUCT IS OF HERBAL ORIGIN. THERE MAY BE MINOR COLOR DIFFERENCE DUE TO GEOGRAPHICAL AND SEASONAL VARIATION OF THE PLANT MATERIAL**

Analysis by

Approved by

