

## SPECIFICATION

|                                                         |
|---------------------------------------------------------|
| <b>Product Name:</b> Bacopa Monnieri Extract Powder 20% |
| <b>Chemical Formula:</b> N/A                            |
| <b>CAS Number:</b> 93165-48-3                           |
| <b>Molecular Weight:</b> N/A                            |
| <b>Appearance:</b> Brown fine powder                    |
| <b>Odor:</b> Odor                                       |

## Chemical Composition

| Parameter                            | Unit | Typical Value | Specification (Min./Max.) |
|--------------------------------------|------|---------------|---------------------------|
| Identification                       | -    | Complies      | Identical to R.S. sample  |
| Sieve analysis                       | %    | 92.49%        | 90% through 80 mesh       |
| Moisture                             | %    | 3.56%         | < 5.0%                    |
| Bulk Density (Tapped)                | g/ml | 68.98g/100ml  | 40 - 80g/100ml            |
| Active component – Assay (Baccoside) | %    | 20.11%        | 20%                       |
| Arsenic                              | PPM  | B.L.Q.        | ≤1.1 PPM                  |
| Cadmium                              | PPM  | B.L.Q.        | Max. 1.5 PPM              |
| Lead                                 | PPM  | B.L.Q.        | ≤2.5 PPM                  |
| Mercury                              | PPM  | B.L.Q.        | ≤1.0 PPM                  |
| Aflatoxin B1                         | ppb  | Complies      | ≤5 ppb                    |
| Aflatoxin B2                         | ppb  | Complies      | ≤2 ppb                    |
| Aflatoxin G1                         | ppb  | Complies      | ≤2 ppb                    |
| Aflatoxin G2                         | ppb  | Complies      | ≤2 ppb                    |

|                             |       |             |              |
|-----------------------------|-------|-------------|--------------|
| Ethylene Oxide              | mg/kg | Complies    | ≤0.01 mg/kg  |
| Pesticide Residue           | mg/kg | Complies    | ≤0.01 mg/kg  |
| <b>Microbiological Test</b> |       |             |              |
| Total Plate Count           | cfu/g | <1000 cfu/g | <10000 cfu/g |
| Yeast & Molds               | cfu/g | <100 cfu/g  | <100 cfu/g   |
| Coliform                    | cfu/g | <10 cfu/g   | <10 cfu/g    |
| E. Coli                     | -     | Negative    | Negative     |
| Salmonella                  | -     | Negative    | Negative     |

### **Physical Properties**

- Solubility: Soluble in water. Soluble in ethanol. Insoluble in acetone. Insoluble in oils.

### **Shelf Life & Storage**

- Shelf Life: 3 years from date of manufacture under recommended storage.  
 - Storage Conditions: Store in a cool, dry place away from direct sunlight, heat, and moisture. Keep the container tightly closed in the original packaging. Store at 15–25°C in a well-ventilated area to maintain product quality and stability.

### **Applications**

- Use: Widely used as a herbal ingredient in dietary supplements and nutraceutical formulations. It is traditionally used to support memory, cognitive function, concentration, and overall brain health.  
 - Dosage: Depends on the intended formulation and standardized bacoside content. It should be used according to product formulation requirements or as directed by a qualified healthcare professional. The appropriate dosage varies based on the product type, extract concentration, age, and individual health needs.

### **Packaging**

- Standard Packing: 25 Kgs pp bag with inner liner and 1 Kgs or as per customer requirement.  
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

\* Specifications are based on the manufacturer's provided specifications.