

## CERTIFICATE OF ANALYSIS

|                       |                                   |                         |          |
|-----------------------|-----------------------------------|-------------------------|----------|
| <b>Product Name</b>   | Black Cohosh Powder               |                         |          |
| <b>Botanical Name</b> | Vernonia aspera(Roxb.) Buch.-Ham. |                         |          |
| <b>Used part</b>      | Root                              |                         |          |
| <b>Batch Number</b>   | 20220618                          | <b>Manufacture Date</b> | 20220618 |
| <b>Report Date</b>    | 20220618                          | <b>Expiry Date</b>      | 20240617 |

| Item of Analysis                | Specification       | Results   | Test Methods                  |
|---------------------------------|---------------------|-----------|-------------------------------|
| <b>Organoleptic</b>             |                     |           |                               |
| Appearance                      | Powder              | Conforms  | Organoleptic                  |
| Color                           | Brown yellow powder | Conforms  | Organoleptic                  |
| Odor                            | Characteristic      | Conforms  | CP2010                        |
| Taste                           | Characteristic      | Conforms  | CP2010                        |
| <b>Physical Characteristics</b> |                     |           |                               |
| Particle Size                   | 100% pass 80 mesh   | 80MESH    | CP2010                        |
| Moisture                        | <5%                 | 2.06%     | GB/T 14769-1993               |
| Ash Content                     | <5%                 | 1.83%     | AOAC 942.05, 18th             |
| Bulk Density                    | 45-60g/100mL        | 49g/100mL | CP2010IA                      |
| Residue of Solvents             | None                | Conform   | NLS-QCS-1007                  |
| Pesticide Residues              | 1ppm NMT            | 0.236 ppm | Gas Chromatography            |
| <b>Process Data</b>             |                     |           |                               |
| Method of Processing            | Extraction          | Conform   | /                             |
| Solvent(s) Used                 | Ethanol             | Conform   | /                             |
| Excipient                       | None                | Conform   | /                             |
| Drying Method                   | Spray drying        | Conform   | /                             |
| Cadmium (Cd)                    | 2ppm NMT            | Conform   | ICP-MS                        |
| Mercury (Hg)                    | 0.5ppm NMT          | Conform   | ICP-MS                        |
| <b>Microbiological Tests</b>    |                     |           |                               |
| Total Plate Count               | <3,000cfu/g         | 365cfu/g  | AOAC 990.12, 18th             |
| Total Yeast & Mold              | <300cfu/g           | 70cfu/g   | FDA (BAM) Chapter 18, 8th Ed. |
| E. Coli                         | Negative            | Negative  | AOAC 997.11, 18th             |
| Salmonella                      | Negative            | Negative  | FDA (BAM) Chapter 5, 8th Ed.  |

**Storage:** Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

**Shelf Life:** 24 months if store under the conditions above and stay in original packaging.

