

CERTIFICATE OF ANALYSIS

| | | | |
|-----------------------|--------------------------------|-------------------------|----------|
| Product Name | Bilberry Extract | | |
| Botanical Name | <i>Vaccinium Uliginosum L.</i> | | |
| Used part | Fruit | | |
| Batch Number | 20221021 | Manufacture Date | 20221021 |
| Report Date | 20221021 | Expiry Date | 20241020 |

| Item of Analysis | Specification | Results | Test Methods |
|---------------------------------|-------------------------|-----------|-------------------|
| Anthocyanidins(by UV) | ≥25% | 25.6% | UV |
| Organoleptic | | | |
| Appearance | Powder | Conforms | Organoleptic |
| Color | Dark-violet fine powder | Conforms | Organoleptic |
| Odor | Characteristic | Conforms | CP2010 |
| Taste | Characteristic | Conforms | CP2010 |
| Physical Characteristics | | | |
| Particle Size | 100% pass 80 mesh | 80MESH | CP2010 |
| Loss on drying | 5%NMT (%) | 3.86% | USP<731> |
| Total ash | 5%NMT (%) | 2.67% | USP<561> |
| Bulk Density | 45-60g/100mL | 52g/100mL | CP2010IA |
| Residue of Solvents | None | Conform | NLS-QCS-1007 |
| Heavy metals | | | |
| Total Heavy Metals | 10ppm Max | Conform | USP<231>method II |
| Lead (Pb) | 2ppm NMT | Conform | ICP-MS |
| Arsenic (As) | 2ppm NMT | Conform | ICP-MS |
| Cadmium (Cd) | 2ppm NMT | Conform | ICP-MS |
| Mercury (Hg) | 0.5ppm NMT | Conform | ICP-MS |
| Microbiological Tests | | | |
| Total Plate Count | 1000cfu/g Max | Conform | USP<61> |
| Yeast & Mold | 100cfu/g Max | Conform | USP<61> |
| E. Coli. | Negative | Conform | USP<61> |
| Salmonella | Negative | Conform | USP<61> |
| Staphylococcus | Negative | Conform | USP<61> |

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.

