



Certificate of Analysis

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|------------------|---------------------------------------|-------------------|---------------|
| Product Name: | Griffonia Seed Extract | Batch Number: | Varies |
| Botanical Name:. | <i>Griffonia simplicifolia</i> | Manufacture Date: | Varies |
| Used part: | Seeds | Expiry Date: | Varies |

| IDENTIFICATION | | SPECIFICATION | RESULT |
|----------------|----------------------|---------------------------|-----------------|
| Assay (5-HTP) | | > 99% | 99.2 - 99.6% |
| Physical | Appearance | White to off-white powder | Complies |
| | Specific rotation | - 30.0° ~ - 35.0° | -32.5° ~ -32.7° |
| | PH | 4.0 - 7.0 | 5.55 - 6.2 |
| | Particle Size | 98 - 100% pass 80 mesh | Complies |
| | Solubility | 10 mg/mL | Complies |
| | Loss on drying | ≤ 1% | 0.1 - 0.26% |
| | Total impurity | ≤ 0.5% | 0.1% |
| Chemical | Total Heavy Metals | ≤ 10 ppm | Complies |
| | Lead (Pb) | ≤ 0.5 ppm | Complies |
| | Arsenic (As) | ≤ 1 ppm | Complies |
| | Cadmium (Cd) | ≤ 1 ppm | Complies |
| | Mercury (Hg) | ≤ 0.3 ppm | Complies |
| Microbial | Total Plate Count | ≤ 1000 cfu/g | Complies |
| | Yeast & Mold | ≤ 100 cfu/g | Complies |
| | E. Coli, Salmonella, | Negative | Complies |

| | | |
|------|-------------------|-------------------------------------|
| Else | Storage condition | Sealed, kept in shady and dry place |
| | Shelf life | Two years |

