

Certificate of Analysis

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|--------------------------|--|-------------------------|---------------|
| Product Name | Ashwagandha root extract | Manufacture Date | Jun. 15, 2019 |
| Batch No. | AS190615 | Certificate Date | Jun. 20, 2019 |
| Batch Quantity | 1000kgs | Expiration Date | Jun. 14, 2021 |
| Storage Condition | Store in cool & dry place, Keep away from strong light and heat. | | |

| Item | Specification | Result | Method |
|----------------------------------|---|----------|-------------------------------|
| Basic Product Information | | | |
| Genus and Species | <i>Withania somnifera(L.)Dunal</i> | Conform | / |
| Part of the Plant | Root | Conform | / |
| Country of Origin / Production | India / China | Conform | / |
| Organoleptic Data | | | |
| Appearance | Fine Powder | Conform | GJ-QCS-1008 |
| Color | Brown-Yellow | Conform | GB/T 5492-2008 |
| Odor | Characteristic | Conform | GB/T 5492-2008 |
| Taste | Characteristic | Conform | GB/T 5492-2008 |
| Process Data | | | |
| Method of Processing | Extraction | Conform | / |
| Solvent(s) Used | Ethanol & Water | Conform | / |
| Drying Method | Spray Drying | Conform | / |
| Ratio of Extraction | 10:1 | Conform | / |
| Physical Characteristics | | | |
| Solubility | Soluble in Ethanol and Diethyl Phthalate and insoluble in Benzene | Conform | Visual |
| Particle Size (80 mesh) | 100%pass 80mesh | Conform | GB/T 5507-2008 |
| Moisture | <5.0% | 3.04% | GB/T 14769-1993 |
| Ash Content | <5.0% | 3.12% | AOAC 942.05, 18th |
| Heavy Metals | | | |
| Total Heavy Metals | <20 ppm | Conform | USP <231>, method II |
| As | <2.0 ppm | Conform | AOAC 986.15, 18th |
| Pb | <2.0 ppm | Conform | AOAC 986.15, 18th |
| Cd | <0.5 ppm | Conform | AOAC 986.15, 18th |
| Hg | <0.5 ppm | Conform | AOAC 986.15, 18th |
| Pesticide Residue | | | |
| 666 | <0.2ppm | Conform | GB/T5009.19-1996 |
| DDT | <0.2ppm | Conform | GB/T5009.19-1996 |
| Microbiology | | | |
| Total Plate Count | <10,000cfu/g | Conform | AOAC 990.12, 18th |
| Total Yeast & Mold | <1,000cfu/g | Conform | FDA (BAM) Chapter 18, 8th Ed. |
| E. Coli | Negative | Negative | AOAC 997.11, 18th |
| Salmonella | Negative | Negative | FDA (BAM) Chapter 5, 8th Ed. |

Conclusion: Complies with specification

Tested by: Liu gang

Date: 2019.06.20

Approved by: Susan Sun, Ph.D

Date: 2019.06.20