

CERTIFICATE OF ANALYSIS

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|--------------|----------------------|---------------|-------------------------------------|
| Product Name | Milk Thistle Extract | Latin Name | <i>Silybum marianum (L.) Gaertn</i> |
| Batch No | PY-MT20190819 | Used Part | Seed |
| Quantity | 1000KG | Analysis Date | Aug.22,2019 |
| Mfg. Date | Aug.19,2019 | Exp. Date | Aug.18,2021 |

| No. | Item | Specification | Result |
|-----|---------------------|--|--|
| 1. | Appearance | Faint yellow or brown amorphous powder | Complies |
| 2. | Odor & Taste | Characteristic | Complies |
| 3. | Particle Size | 100% pass 80 mesh | Complies |
| 4. | Identification | The retention time of peak-peak which shows in the chromatogram of the solution should conform to that of Standard solution. | Complies |
| 5. | Extract Solvent | Acetone | Complies |
| 6. | Assay (by HPLC) | Silymarin calculated as dried Silybin 30%~65% Silydianin & Silychristin/Silymarin 20%~45% Silybin A & Silybin B/Silymarin 40%~65% Isosilybin A & Isosilybin B/Silymarin 10%~20% | 45.5% 27.5% 60.7% 11.8% |
| 7. | Assay (by UV) | Silymarin≥80.0% | 84.0% |
| 8. | Loss on Drying | ≤5.0% | 3.9% |
| 9. | Residue on Ignition | ≤0.5% | 0.1% |
| 10. | Heavy Metals | ≤10ppm | <10ppm |
| 11. | Pb | ≤3ppm | <1ppm |
| 12. | As | ≤1ppm | <1ppm |
| 13. | Cd | ≤1ppm | <1ppm |
| 14. | Hg | ≤0.1ppm | <0.1ppm |
| 15. | Residual Solvents | Hexane≤290ppm Acetone≤5000ppm Ethyl Acetate≤5000ppm Methanol≤3000ppm Ethanol≤5000ppm | Complies Complies Complies Complies Complies |
| 16. | Total Plate Count | ≤1,000cfu/g | <1,000cfu/g |

| | | | |
|---|----------------|-----------|-----------|
| 17. | Yeasts & Molds | ≤100cfu/g | <100cfu/g |
| 18. | E.Coli | Negative | Negative |
| 19. | Salmonella | Negative | Negative |
| Store in tightly closed original container, protected from light, moisture, oxygen. Keep in a dry place at room temperature(25.0℃). | | | |
| Non-GMO, TSE/BSE Free, Non-Irradiation, 100% Natural | | | |
| Package: Packed in paper-drums and two plastic-bags inside. N.W: 25kgs. I.D.35*H51cm | | | |
| Conclusion: Conform with Enterprise Standard(According to EP8.0). | | | |

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