

## CERTIFICATE OF ANALYSIS

|              |                         |               |                  |
|--------------|-------------------------|---------------|------------------|
| Product Name | Berberine Hydrochloride | Latin Name    | Berberisaristata |
| Batch No     | PY-BE20200301           | Used Part     | Bark             |
| Quantity     | 500KG                   | Analysis Date | Mar.04,2020      |
| Mfg. Date    | Mar.01,2020             | Exp. Date     | Feb.28,2022      |

| No. | Item                   | Specification                        | Result      |
|-----|------------------------|--------------------------------------|-------------|
| 1.  | Appearance             | Yellow crystalline powder            | Complies    |
| 2.  | Odor & Taste           | Characteristic                       | Complies    |
| 3.  | Particle Size          | 100% pass 80 mesh sieve              | Complies    |
| 4.  | Identification         | A,B,C,D,E: Positive                  | Positive    |
| 5.  | Assay(by Titration)    | Berberine Hydrochloride $\geq$ 97.0% | 98.2%       |
| 6.  | Water(Dried substance) | $\leq$ 12.0%                         | 11.49%      |
| 7.  | Ash                    | $\leq$ 0.2%                          | 0.09%       |
| 8.  | Heavy Metals           | $\leq$ 10ppm                         | <10ppm      |
| 9.  | Pb                     | $\leq$ 3.0ppm                        | <3.0ppm     |
| 10. | As                     | $\leq$ 1.0ppm                        | <1.0ppm     |
| 11. | Cd                     | $\leq$ 1.0ppm                        | <1.0ppm     |
| 12. | Hg                     | $\leq$ 0.1ppm                        | <0.1ppm     |
| 13. | Total Plate Count      | $\leq$ 1,000cfu/g                    | <1,000cfu/g |
| 14. | Yeasts & Molds         | $\leq$ 1,00cfu/g                     | <100cfu/g   |
| 15. | E.Coli                 | Negative                             | Negative    |
| 16. | Salmonella             | Negative                             | Negative    |

NON-IRRADIATED/NON-GMO/BSE FREE

Store in well-closed container at room temperature, protect from light, moisture and pest infestation.

Conclusion: Conform with CP2005 specification.

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