

## Certificate of Analysis

| General Information                 |                             |                  |                              |
|-------------------------------------|-----------------------------|------------------|------------------------------|
| Botanical Name                      | Milk Thistle Extract        | Latin Name       | Silybum marianum (L.) Gaertn |
| Batch #                             | SFJ2019-11-01               | Produce Date     | 2019-11-01                   |
| Analysis Date                       | 2019-11-07                  | Expiry Date      | 2021-10-31                   |
| Representative QTY                  | 1000 kg                     | Herbal Part Used | Seed                         |
| Item                                | Specification and Standards |                  | Result                       |
| Physical Property                   |                             |                  |                              |
| Appearance                          | Amorphous Powder            |                  | Conforms                     |
| Color                               | Yellow to Yellowish-Brown   |                  | Conforms                     |
| Odour                               | Slight, Specific            |                  | Conforms                     |
| Powder size                         | Mesh 80 NLT 95%             |                  | Conforms                     |
| Assay of Silymarin (Tested by UV)   | NLT 80%                     |                  | 85.3%                        |
| Assay of Silymarin (Tested by HPLC) |                             |                  | 51.0%                        |
| -Silybin A.B.                       |                             |                  | 30.0%                        |
| -Isosilybin A.B.                    |                             |                  | 6.2%                         |
| -Silydianin&Silychristin            |                             |                  | 12.8%                        |
| Solubility                          |                             |                  |                              |
| - in Water                          | Practically Insoluble       |                  | Conforms                     |
| - in Methanol and Acetone           | Soluble                     |                  | Conforms                     |
| General Analysis                    |                             |                  |                              |
| Sulphated Ash                       | NMT 0.5%                    |                  | 0.01%                        |
| Heavy metals                        | NMT 10 PPM                  |                  | 1PPM                         |
| Loss On Drying (2 Hours 105 °C)     | NMT 5.0%                    |                  | 3.2%                         |



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| <b>Residual Solvents</b>   |   |          |
|----------------------------|---|----------|
| - N-hexane                 | NMT 0.029%  | 0.001%   |
| -Acetone                   | NMT 0.5%  | 0.02%    |
| - Ethyl Acetate            | NMT 0.5%  | 0.01%    |
| - Ethanol                  | NMT 0.5%  | 0.01%    |
| <b>Microbiological</b>     |   |          |
| - Total bacterial count    | NMT 1,000 CFU/g   | 100CFU/g |
| - Moulds & Yeasts          | NMT 100 CFU/g   | 10CFU/g  |
| - Escherichia coli         | Not detected  | Conforms |
| - Salmonellaspecies        | Not detected  | Conforms |
| <b>Shelf Life</b>          | 24 months under the conditions below, no antioxidant used   |          |
| <b>Package&amp;Storage</b> | Standard packed in fiber-drum and two plastic bags inside   |          |
|                            | N.W: 25kgs. I.D. 35 x H51 cm;                               |          |
|                            | Store in a cool,dry place away from Moisture, Light, Oxygen |          |
| <b>Manufacturer</b>        | Xi'an Sost Biotech Co.,Ltd.                                 |          |

QC : Guo Shan

QA: Feng Li

