



## CERTIFICATE OF ANALYSIS

|                                   |  |              |                          |
|-----------------------------------|--|--------------|--------------------------|
| Product Name                      | Devil's claw extract   | Latin Name   | Harpagophytum procumbens |
| Used Part                         | Stem   | Solvent      | Ethanol&Water            |
| Batch No.                         | 210423   | Product Date | Apr.23,2021              |
| Testing Date                      | Apr.23,2021  | Quantity     | 500kg                    |
| Expiry Date                       | Apr.22,2023  | Packing      | 25KG/Drum                |
| <b>Items &amp; Results</b>        |  |              |                          |
| Item                              | Spec.  | Result       | Test method              |
| Assay                             | Harpagosides 5%  | 5.12%        | UV                       |
| <b>Physical&amp;Chemical Test</b> |  |              |                          |
| Appearance                        | Brown Yellow Fine Powder                                       | Conforms     | Visual                   |
| Odor                              | Characteristic   | Conforms     | Organoleptic             |
| Taste                             | Characteristic   | Conforms     | Organoleptic             |
| Drying Method                     | Vacuum drying  | Conforms     |                          |
| Particle Size                     | NLT100%Through80 mesh  | Conforms     | AOAC973.03(TQ_106)       |
| Loss on Drying                    | ≅ 5.0%   | 2.38%        | TQ-104(105°C/2h)         |
| Ash (Sulphated Ash)               | ≅ 5.0%   | 3.17%        | TQ-104(525°C/3h)         |
| Total Heavy Metals                | ≤10ppm   | Conforms     | ICP/MS AOAC 993.14       |
| Arsenic(As)                       | ≤1ppm  | Conforms     | ICP/MS AOAC 993.14       |
| Lead(Pb)                          | ≤1ppm  | Conforms     | ICP/MS AOAC 993.14       |
| Mercury(Hg)                       | ≤0.05ppm   | Conforms     | ICP/MS AOAC 993.14       |
| Cadmium (Cd)                      | ≤1ppm  | Conforms     | ICP/MS AOAC 993.14       |
| <b>Microbiological Test</b>       |  |              |                          |
| Total Plate Count                 | ≤10,000cfu/g   | Conforms     | AOAC996. 23              |
| Total Yeast & Mold                | ≤1,00cfu/g   | Conforms     | FDA(BAM) 7th Ed.         |
| E.Coli                            | Negative   | Negative     | USP33,NF28,2010          |
| Salmonella                        | Negative   | Negative     | USP33,NF28,2010          |
| Staphylococcus                    | Negative   | Negative     | USP33,NF28,2010          |
| sterilization method              | High temperature sterilizing                                   |              |                          |
| Shelf life&Storage                | 2years.Cool & dry place. Keep away from strong light and heat. |              |                          |
| Conclusion                        | Conform with specification                                     |              |                          |
| Analyst                           | 马亮   | Review       | 刘爱琴<br>Supervisor of QC  |

