

No.: BPBE-604-A-00/3.0

**CERTIFICATE OF ANALYSIS**

|                         |                        |                    |              |
|-------------------------|------------------------|--------------------|--------------|
| <b>Product Name</b>     | L-Rhamnose Monohydrate | <b>Code</b>        | BPBE-604-A   |
| <b>Botanical Source</b> | Sophorae Japonica L.   | <b>Used Part</b>   | Flower Bud   |
| <b>Batch No.</b>        | H010560419A            | <b>Mfg. Date</b>   | May 05, 2019 |
| <b>Packing</b>          | 25kg/Drum              | <b>Retest Date</b> | May 04, 2021 |
| <b>Quantity</b>         | 1000kg                 | <b>Report Date</b> | May 10, 2019 |
| <b>Specification</b>    | 98%(HPLC)              |                    |              |

| ITEM                      | SPECIFICATION  | RESULT         |
|---------------------------|--|----------------|
| <b>Appearance</b>         | White crystalline granule or powder                                      | Complies       |
| <b>Melting Point</b>      | 82°C~ 95°C   | 83.5°C~ 91.3°C |
| <b>Specific Rotation</b>  | +7.5° ~+9.5°   | +7.76°         |
| <b>Solubility</b>         | Soluble in water   | Complies       |
| <b>Particle Size</b>      | 100% pass 20 mesh  | Complies       |
| <b>Loss on Drying</b>     | ≤11.0%   | 9.96%          |
| <b>Reside on Ignition</b> | ≤0.2%  | 0.16%          |
| <b>Heavy Metals</b>       | ≤10ppm   | Complies       |
| <b>Assay(HPLC)</b>        | ≥98.0%   | 99.49%         |
| <b>Total Plate Count</b>  | ≤1000cfu/g   | Complies       |
| -Yeast & Mold             | ≤100cfu/g  | Complies       |
| -E.Coli                   | Negative   | Negative       |
| -Salmonella               | Negative   | Negative       |
| <b>Conclusion</b>         | Comply with the specification.   |                |
| <b>Storage</b>            | Preserve in tight containers, protected from strong light and high heat. |                |

Analyst:

Reviewed by:

Approved by: