

HANGZHOU THINK CHEMICAL CO., LTD.

ADD: Chengnan Industrial zone, Meicheng, Jiande, Hangzhou, China

CERTIFICATE OF ANALYSIS

| | | | |
|-------------------------------|------------------|---------------------------|------------------|
| Product Name: Arbutin | | | |
| Specification: Q/HBATK06-2013 | | Production No.: 20150919A | |
| Production | Date: 2015-09-19 | Expriy | Date: 2017-09-18 |

| Item | Specification | Results |
|---------------------------------|-------------------------------------------------|----------------------|
| Appearance | White crystalline powder | White crystalline |
| Assay | 99.5%Min | 99.8% |
| Melting point | 198.5~201.5℃ | 200.2-200.7℃ |
| Clarity of water solution | Transparency, colorless, none suspended matters | Pass |
| pH value of 1% aqueous solution | 5.0~7.0 | 5.84 |
| Specific optical rotation | 【α】D20=-66±2° | -65.2° |
| Arsenic | ≤2 ppm | Pass |
| Hydroquinone | ≤10 ppm | Pass |
| Heavy metal | ≤10 ppm | Pass |
| Loss on drying | ≤0.5% | 0.05% |
| Ignition residue | ≤0.5% | 0.06% |
| Pathogen | Bacteria: ≤300cfu/g Fungus: ≤100cfu/g | <20cfu/g <20cfu/g |
| Conclusion | Pass | |

杭州思诺化工贸易有限公司
HANGZHOU THINK CHEMICAL CO., LTD.
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Storage conditions: Store in cool and dry places. Keep away from strong light and heat.

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