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## Xi'an Plant Bio-engineering Co.,Ltd

### CERTIFICATE OF ANYLISIS

Product Name :	Alpha Arbutin	CAS:	84380-01-8
Quantity:	40 kg	Man.f. Date :	March,3,2021
Batch No. :	J22103031E5	Expiry Date:	March,2,2023

Item	Specification	Results
<b>Appearance</b>	White crystalline powder to white powder	White crystalline powder
<b>Assay</b>	99.5% Min	99.99%
<b>Melting point</b>	203~206 ± 1	204.0~204.8
<b>Clarity of water solution</b>	Transparency, colorless, none suspended matters	Complies
<b>pH Value(1% aqueous solution)</b>	5.0-7.0	6.02
<b>Specific optical rotation</b>	【   】 D20=+176~184°	+178.17 °
<b>State of solution (Transmittance)</b>	95.0%	99.5%
<b>Loss on drying</b>	1.0%	0.18%
<b>Ignition residue</b>	0.5%	0.06%
<b>Hydroquinone</b>	10ppm	Not detectable
<b>Heavy metal</b>	10 ppm	<5ppm
<b>As</b>	2 ppm	<0.5ppm
<b>Total Bacteria Count</b>	<1000CFU/g	20CFU/g
<b>Yeast&amp;Mold</b>	<100CFU/g	<10CFU/g
<b>Salmonella</b>	Not detectable	Complies

<b>E.Coli</b>	Not detectable	Complies
<b>Staphylococcus Aureus</b>	Not detectable	Complies

<b>Conclusion</b>	Conform with Specification.
<b>Storage</b>	Store in a cool and dry place, keep away from direct strong and heat.
<b>Shelf Life</b>	24months if when properly stored.

Inspector: *wenjia Li*

Examiner: *Huang zhou*

Company Stamp: