

Xi'an Plant Bio-engineering Co., Ltd

Certificate of Analysis

Name: Beta-Arbutin

Specification: Q/HBATK06-2016

Production Date: May, 2, 2021

Production No.: BA210502

Expriy Date: May, 1, 2023

Item	Specification	Results
Appearance	White crystalline powder	White crystalline
Assay	99.5%Min	99.8%
Melting point	198.5~201.5℃	200.1-200.5℃
Clarity of water solution	Transparency, colorless, none suspended matters	Pass
pH value of 1% aqueous solution	5.0~7.0	5.60
Specific optical rotation	$[\alpha]_D^{20} = -66 \pm 2^\circ$	-66.5
Arsenic	≤ 2 ppm	pass
Hydroquinone	≤ 10 ppm	pass
Heavy metal	≤ 10 ppm	pass
Loss on drying	$\leq 0.5\%$	0.04%
Ignition residue	$\leq 0.5\%$	0.02%
Pathogen	Bacteria: ≤ 300 cfu/g Fungus: ≤ 100 cfu/g	<20 <20
Conclusion	Conform with specification	

Inspector: *wenjia Li*

Examiner: *Huang zhou*

Company Stamp: