



Jiangxi Chengzhi Bio-engineering Co.,Ltd

# CERTIFICATE OF ANALYSIS


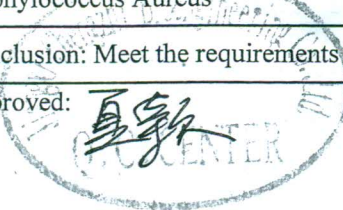
Analysis Number: 2013121

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Product Name	$\alpha$ -Arbutin	Product code	/
Batch No.	20130829	Batch size	1 kg
Standard	Manufacturer's Standard	Packing	1kg/bag
Manu. Date	2013-08-31	Exp. date	2015-08-30
Test date	2013-08-31	Report date	2013-09-05

ITEMS	SPECIFICATIONS	RESULTS
Description	White crystals or crystalline powder, IR spectrum conforms.	Pass
Assay (HPLC, %)	$\geq 99.5$	99.9%
Loss on Drying(%)	$\leq 0.5$	0.07
Residue on Ignition(%)	$\leq 0.5$	0.05
Specific Rotation $[\alpha]_D^{20}$	$+175.0^\circ \sim +185.0^\circ$	$+179.2^\circ$
Clarity of water solution (1%)	Transparent,colorless,none suspended matters.	Pass
pH	5.0~7.0	6.16
Melting point( $^\circ\text{C}$ )	202.0 $^\circ\text{C}$ ~210.0	206.8
Hydroquinone	Negative	Pass
Lead(mg/kg)	$\leq 10$	<10
Arsenic(mg/kg)	$\leq 2$	<2
Mercury(mg/kg)	$\leq 1$	<1
Methanol(mg/kg)	$\leq 2000$	<1000
Aerobic Bacterial Count(cfu/g)	$\leq 1000$	Pass
Molds and Yeast Count(cfu/g)	$\leq 100$	Pass
Fecal Coliforms	Negative/g	Pass
Pseudomonas Aeruginosa	Negative/g	Pass
Staphylococcus Aureus	Negative/g	Pass
Conclusion: Meet the requirements of the Manufacturer's Standard.		

Approved:

Reviewed:

曹红霞

Tested:

揭红伟