西安天丰生物科技股份有限公司
Xi'an Natural Field Bio-Technique Co., Ltd

CERTIFICATE OF ANALYSIS

Product Name:	Alpha Arbutin		
CAS NO.:	84380-01-8	Manu Date:	Feb. 05, 2021
Batch Number:	NF-20210205	Expiration Date:	Feb. 04, 2023
Quantity:	1000kg	Report Date:	Feb. 09, 2021
Storage Condition:	Store in a well-closed and dry place with constant room temperature and Non-direct sunlight		

Item	**Standard**	**Test Result**
Assay(HPLC)	≥99.5%	99.98%
Organoleptic		
Appearance	Crystalline powder	Conforms
Color	White	Conforms
Physical Characteristics		
Loss on Drying	≤1.0%	0.15%
Residue on ignition	≤0.5%	0.06%
pH Value	5.0-7.0	6.54
Melting Range	202°C~210°C	202.4°C~203.0°C
Specific optical Ratation □	$[\alpha]D^{20}$ + 175.0°~+185.0°	+179.26°
Transmittance	≥95%	96.8%
Hydroquinone（HPLC）	10ppm	Conforms
Heavy metals		
Total Heavy Metals	≤10.0ppm	Conforms
Arsenic(As)	≤2.0ppm	Conforms
Microbiological Tests		
Total Plate Count	≤1000cfu/g	Conforms
Yeast & Mold	≤100cfu/g	Conforms
E.Coli.	Negative	Negative
Stahylococcus aureus	Negative	Negative
Conclusion	Conforms to the In-house Standard.	
Tested by:	Fangchao Yang	Approved by: Jicheng Niu

Xi'an Natural Field Bio-technique Co.,Ltd Inspection

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