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.:	8480-01-8	Manu Date:	Jul. 04, 2019
Batch Number:	NF-20190704	Expiration Date:	Jul. 03, 2021
Quantity:	100kg	Report Date:	Jul. 04, 2019
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%	99.99%
Organoleptic		
Appearance	Fine Powder	Conforms
Color	White	Conforms
Physical Characteristics		
Loss on Drying	≤1.0%	0.23%
Residue on ignition	≤0.5%	0.05%
pH Value	5.0-7.0	5.90
Melting Range	202°C~210°C	204.3°C~204.8°C
Specific optical Ratation	$[\alpha]D^{20}$ + 175.0°~+185.0°	+180.01°
Transmittance	95%	98.20%
Hydroquinone（HPLC）	10ppm	＜10ppm
Heavy metals		
Total Heavy Metals	≤10.0ppm	Conforms
Arsenic(As)	≤2.0ppm	Conforms
Microbiological Tests		
Total Plate Count	≤1000cfu/g	20cfu/g
Yeast & Mold	≤100cfu/g	Conforms
E.Coli.	Negative	Conforms
Conclusion	Conforms to the In-house standard	
Tested by:	Lijun Dou	Approved by: Jicheng Niu

Xi'an Natural Field Bio-technique Company Limited
Inspection

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