

Certificate of Analysis

Product Name: Betulinic Acid

CAS No: 472-15-1

Batch Number: KN0320052001

Quantity: 55.0kg

Origin of Material: China

MF: C30H48O3

Date of Manufacture: 2020/05/20

Date of Expiration: 2022/05/19

Item	Specification	Result	Testing Method
Purity	≥98%	99.5%	HPLC
Physical & Chemical Control			
Appearance	White fine powder	Complies	Visual
Identification	Positive	Positive	TLC&NMR
Loss on Drying	≤3.0%	1.43%	5g/105°C/2hrs
Ash	≤0.5%	ND	2g/525°C/3hrs
Solvent Residue	≤5000ppm	Complies	GC
Heavy Metals			
As	≤2ppm	<2ppm	ICP-MS
Pb	≤1ppm	<1ppm	ICP-MS
Hg	≤0.1ppm	<0.1ppm	ICP-MS
Cd	≤1ppm	<1ppm	ICP-MS
Microbiological			
Total Plate Count	≤1000cfu/g	<1000cfu/g	AOAC,BAM
Yeast & Mould	≤100/cfu/g	<100cfu/g	AOAC,BAM
Salmonella	Negative	Undetected	AOAC,BAM
E.Coli	Negative	Undetected	AOAC,BAM
Staphylococcus	Negative	Undetected	AOAC,BAM
Statement: Non-Irradiated, Non-BSE/TES, Non-GMO, Non-Allergen			
Conclusion	The product complies with specification		
Storage	In cool & dry place. Keep away from strong light and heat.		
Shelf life	2 years when properly stored.		
Packing	25KG/drum or as requested, Pack in paper-drums and two plastic-bags inside.		

QA: Wang Jie

QC: Yang Jinbo

Analyst: Xu Ke

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