

## Certificate of Analysis

### Product Information

Product Name	20-Hydroxy-Ecdysterone (90%B-Ecdysterone)	Report Number	ZOL20191129
Batch Number	HEL210510	Manufacture Date	2021.05.10
Analysis Date	2021.05.15	Report Date	2021.05.20
Batch Quantity	300KG	Expiry Date	2023.05.09



Test items	Specifications	Result	Test Methods
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### Active Ingredients

$\beta$ -Ecdysterone (C <sub>27</sub> H <sub>44</sub> O <sub>7</sub> )	NLT90.0%	91.50%	UV
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### Physical & Chemical Data

Appearance	Light Yellow to White powder odorless, with hygroscopic	Conforms	Visual
Odor and Taste	Characteristic	Conforms	Organoleptic
Sieve analysis	90% through 80 mesh	Conforms	80 Mesh Screen
Loss on Drying	≤5.0 %	3.25%	105°C/2 hrs
Total Ash	≤5.0 %	3.50%	GB 5009.4
Bulk Density	40~60 g/100mL	55.2 g/100mL	GB/T 18798.5
Tap Density	60~90g/100mL	68.5 g/100mL	GB/T 18798.5
Sulphated Ash	<1.0%	Conforms	
Residue on Ignition	<1.0%	Conforms	

### Contaminants

Lead (Pb)	<3.0mg/kg	0.35mg/kg	ICP-MS
Arsenic (As)	<2.0mg/kg	0.22mg/kg	ICP-MS
Cadmium (Cd)	<1.0mg/kg	0.07mg/kg	ICP-MS
Mercury (Hg)	<0.1mg/kg	0.001mg/kg	ICP-MS

### Microbiological

Total Aerobic Count	≤ 1000cfu/g	110cfu/g	GB 4789.2
Yeast & Moulds	≤ 100cfu/g	10cfu/g	GB 4789.15
E-Coli	Negative	Conforms	GB 4789.3
Salmonella	Negative	Conforms	GB 4789.4
Staphylococcus Aureus	Negative	Conforms	GB 4789.10

### Storage & Packing

Shelf Life:	3 years when properly stored.
Packing :	Packed in paper-drums and two plastic-bags inside.
Storage:	Store in cool & dry place, not freeze. Keep away from strong light.

Remarks: This product is natural, the color vary from batch to batch.

Tested by: 张丽娜

Checker: 李明

Approved:

