

## Certificate of Analysis

<b>Product Information</b>			
Product Name	Black Pepper Extract Powder	Report Number	BPL20210637
Botanical Name	Piper nigrum	Manufacture Date	2021/06/12
Used Part	Seed	Analysis Date	2021/06/17
Batch Number	BPL210612	Report Date	2021/06/22
Batch Quantity	200Kg	Expiry Date	2024/06/11
<i>Test Items</i>	<i>Specifications</i>	<i>Result</i>	<i>Test Methods</i>
<b>Active Ingredients</b>			
Assay	≥98.0% Piperine	98.27%	HPLC
<b>Physical &amp; Chemical Data</b>			
Appearance	Off White or White Fine Powder	Conforms	Visual
Odor and Taste	Characteristic	Conforms	Organoleptic
Sieve analysis	90% through 80 mesh	Conforms	80 Mesh Screen
Loss on Drying	≤5.0 %	2.23%	105°C/2 hrs
Total Ash	≤5.0 %	1.42%	GB 5009.4-2016
<b>Contaminants</b>			
Lead (Pb)	<1.0mg/kg	Conforms	ICP-MS
Arsenic (As)	<1.0mg/kg	Conforms	ICP-MS
Cadmium (Cd)	<1.0mg/kg	Conforms	ICP-MS
Mercury (Hg)	<0.1mg/kg	Conforms	ICP-MS
<b>Microbiological</b>			
Total Aerobic Count	≤1000cfu/g	130cfu/g	GB 4789.2
Yeast & Moulds	≤100cfu/g	20cfu/g	GB 4789.15
E-Coli	Negative	Conforms	GB 4789.3
Salmonella	Negative	Conforms	GB 4789.4
Staphylococcus Aureus	Negative	Conforms	GB 4789.10
<b>Conclusion</b>			
Conclusion	To be complied with in-house Specification		
Shelf Life	3 years when properly stored		
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:

