



BOTANICAL CUBE INC

CERTIFICATE OF ANALYSIS

Product Name	Black Pepper Extract	Batch Size	213kg
Product Spec	Piperine $\geq 98\%$	Batch Number	BK1030681H95-1
Botanical Latin Name	<i>Piper nigrum L.</i>	Plant Part	Fruit
MFG. Date	2026.10.08	Retest Date	2028.10.07
Issue Date	2026.10.15		
ITEM	SPECIFICATION	RESULT	TEST METHOD
Physical Description			
Appearance	Light yellow to almost white powder	Conforms	Visual
Odor	Unique smell of black pepper	Conforms	Organoleptic
Taste	Unique taste of black pepper	Conforms	Olfactory
Bulk Density	Slack Density	0.43g/ml	USP616
	Tight Density	0.72g/ml	USP616
Particle Size	95%Through 80 Mesh	Conforms	CP2020
Chemical Tests			
Piperine	$\geq 98.0\%$	98.39%	HPLC
Moisture	$\leq 1.0\%$	0.20%	CP2020 (105°C, 4 h)
Ash	$\leq 1.0 \%$	0.02%	CP2020
Total Heavy Metals	<10 ppm	Conforms	CP2020
Microbiology Control			
Aerobic Bacterial Count	$\leq 1,000$ CFU/g	Conforms	GB4789.2
Yeast	≤ 100 CFU/g	Conforms	GB4789.15
Mold	≤ 100 CFU/g	Conforms	GB4789.15
Escherichia Coli	<3.0MPN/g	Conforms	GB4789.38
Salmonella	Not Detected	Conforms	GB4789.4
Staphylococcus Aureus	Not Detected	Conforms	GB4789.10
Conclusion	Conforms to Specification		

Storage: Store in tightly sealed and preferably full containers in cool, dry and ventilated area.

Shelf Life: 24 months when properly stored.

Status: Natural; Non-Irradiation.

Inspector: 康权

Reviewer: 王菲

Auditor: 卢竞

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