



Certificate of Analysis

Product Name	Black Pepper Extract	Product grade	Food grade
Lot No.	KT20260420	Batch Quantity	540kg
Mfg Date	2026/04/20	Expiry Date	2028/04/19
Extraction Solvent	Water/Ethyl alcohol	Country of origin	P.R.China
Non-Irradiated / Non-ETO/ Treat by Heat Only / Non-GMO			

Analysis Items	Specifications	Results	Test Method
Assay of Piperine	≥ 95.0%	95.42%	HPLC
Identification	Positive	Complied	TLC
Physical and chemical properties			
Appearance	Light yellow powder	Complies	Visual
Bulk Density	Slack Density	0.45g/ml	USP616
	Tight Density	0.73g/ml	USP616
Odour	Slight, Specific	Conforms	Organoleptic
Particle Size	≥95% Through 80 mesh	Conforms	Ch.P.C.Rule47
Loss on drying	≤ 5.0%	1.41%	Ch.P.C.Rule52
Ash	≤ 2.0%	0.05%	CP2020
Heavy Metals	≤ 10.0ppm	Conforms	Atomic Absorption
Cadmium(Cd)	≤ 1.0ppm	Conforms	Atomic Absorption
Mercury(Hg)	≤ 0.1ppm	Conforms	Atomic Absorption
Arsenic(As)	≤ 1.0ppm	Conforms	Atomic Absorption
Lead(Pb)	≤ 2.0ppm	Conforms	Atomic Absorption
Microbiological Quality (Total viable aerobic count)			
Total Plate Count,cfu/g	≤1000 CFU/g	Conforms	Ch.P.C.Rule80
Mold and yeast Count,cfu/g	≤ 100 CFU/g	Conforms	Ch.P.C.Rule80
E. coli	<3.0MPN/g	Negative	Ch.P.C.Rule80
Salmonella	Negative	Negative	Ch.P.C.Rule80
Staphylococcus aureus	Negative	Negative	Ch.P.C.Rule80
*Storage Condition: Store in tightly closed plastic bag and keep in a cool dry place.			
*Safety Precaution: Wearing of protective goggles or safety glasses is recommended.If accidentally instilled into the eyes,immediately rinse thoroughly with water and get medical care. Wash skin with soap and water upon contact.			
Conclusion	Confirm to Specification and Standards.		

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