

Certificate of Analysis

Product Name:	Black Pepper Extract	Batch Number:	Varies
Botanical Name:	Piper nigrum	Manufacture Date:	Varies
Used part:	Seeds	Expiry Date:	Varies

IDENTIFICATION		SPECIFICATION	RESULT
Assay		98% / ≥ 95%	98.2% / 95.32%
Physical	Appearance	Light yellow / Off-white powder	Complies
	Odor & Taste	Characteristic	Complies
	Particle Size	95% pass 80 mesh / 100% pass 80 mesh	Complies
	Loss on drying	≤ 1 - 5%	0.13 - 0.21%
	Total ash	≤ 1 - 5%	0.15 - 0.18%
	Residue of Solvents	None	Complies
Chemical	Total Heavy Metals	≤ 10 ppm	Complies
	Lead (Pb)	≤ 1 - 2 ppm	Complies
	Arsenic (As)	≤ 1 - 2 ppm	Complies
	Cadmium (Cd)	≤ 1 - 2 ppm	Complies
	Mercury (Hg)	≤ 0.5 - 1 ppm	Complies
Microbial	Total Plate Count	≤ 1000 - 3000 cfu/g	Complies
	Yeast & Mold	≤ 100 - 300 cfu/g	Complies
	E. Coli, Salmonella, Staphylococcus	Negative	Complies

Else	Storage condition	Sealed, kept in shady and dry place	
	Shelf life	Two years	

