

Product Specification

Product Name	Black Pepper Extract, Piperin 95%	
Plant Part Used	Seeds	Solvents Used: water + ethanol
Botanical Source	<i>Piper Nigrum</i>	Country Of Origin: India
Physical&Chemical Data	SPECIFICATION	METHOD
Color	light greenish to creamy white	Organoleptic
Odour	Characteristic odor & taste	Organoleptic
Appearance	flowing Powder	Organoleptic
Analytical Quality		
Identification	Identical to <i>R.S.</i> sample	HPTLC
Assay	≥ 95% Piperin	HPLC
Sieve analysis	100 % through 80 mesh	USP34<786>
Loss on Drying	≤ 2.0 %	Eur.Ph.7.0 [2.8.17]
Ash Content	≤ 1.0 %	Eur.Ph.7.0 [2.4.16]
Bulk density	30-50 g/100mL	Eur.Ph.7.0 [2.9.15]
Tap density	40-85g/100mL	Eur.Ph.7.0 [2.9.15]
Contaminants		
Lead (Pb)	≤1.0 ppm	Eur.Ph.7.0<2.2.58>ICP-MS
Arsenic (As)	≤3.0 ppm	Eur.Ph.7.0<2.2.58>ICP-MS
Cadmium (Cd)	≤0.1 ppm	Eur.Ph.7.0<2.2.58>ICP-MS
Mercury (Hg)	≤0.1 ppm	Eur.Ph.7.0<2.2.58>ICP-MS
PAH4	≤20 ppb	HPLC-MS
Benzo(a)pyrene	≤10 ppb	HPLC-MS
Microbiological		
Total Plate Count	≤3000 cfu/gm	USP34 <61>
Yeast & Mold	≤100 cfu/gm	USP34 <61>
E.Coli.	Negative / 10 gm	USP34 <62>
Salmonella	Negative / 10 gm	USP34 <63>
Coliforms	Negative / 10 gm	Complies
Pseudomonas	Negative / 10 gm	Complies
Staphylococcus	Negative / 10 gm	USP34 <64>
General Statement		
Quality & Safety of Food	complied	VO (EG) 178/2002
Vegetarian / Vegan Nutrition	100% Vegan & Lactose-/Gluten free	VO (EU) 1169/2011
GMO	GMO free, complied	PCR, VO (EG) 1829/2003 & 1830/2003
BSE/TSE/Nanomaterial	BSE/TSE free & Nanomaterial free	VO (EU) 2018/969
Status of Irradiation	Non-Irradiation, complied	PPSL, VO (EU) Nr.1169/2011
Allergens Statement	complied	VO (EU) Nr. 1169/2011
Other allergenic ingredients	not contained, complied	VO (EU) Nr. 1169/2011
Allergens Statement		
Solvent Residue	Ethanol NMT < 500 ppm.	
Other allergenic ingredients	not contained, complied	VO (EU) Nr. 1169/2011
Storage	Store in a well-closed container Away from moisture, light, oxygen.	
Shelf life	2 Years under the conditions above and in its original packaging.	