

SPECIFICATION

Product Name: Piperine Dry Extract 95%
Chemical Formula: C ₁₇ H ₁₉ NO ₃
CAS Number: 94-62-2
Molecular Weight: 285.34 g/mol
Appearance: Greenish to off white fine powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification	-	Complies	Identical to R.S. sample
Sieve Analysis	-	Complies	90% through 80 mesh
Moisture	%	4.48%	< 10.0%
Ash	%	2.61%	< 5.0%
Acid insoluble ash	%	1.13%	< 2.4%
Bulk density	g/ml	Complies	40 – 80 g/ml
Active Component- Assay (Piperine)	%	95.16%	95%
Arsenic	PPM	B.L.Q	Max. 1.1 PPM
Cadmium	PPM	B.L.Q	Max. 1.0 PPM
Lead	PPM	B.L.Q	Max. 2.5 PPM
Mercury	PPM	B.L.Q	Max. 0.1 PPM
Contaminants			
Aflatoxin B1	ppb	Complies	≤2ppb
Aflatoxin B2	ppb	Complies	≤2ppb
Aflatoxin G1	ppb	Complies	≤2ppb

Aflatoxin G2	ppb	Complies	≤2ppb
Ethylene Oxide	mg/kg	Complies	≤0.01mg/kg
Pesticides Residues	-	Complies	Organic requirements
Microbiological Tests			
Total Plate Count/g	cfu/g	<1000 cfu/g	<10000 cfu/g
Yeast and Molds/g	cfu/g	<100 cfu/g	<100 cfu/g
Coliform/g	cfu/g	<10 cfu/g	<10 cfu/g
Escherichia Coli/25g	-	Negative	Negative
Salmonella/25g	-	Negative	Negative

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Freely soluble in methanol. Freely soluble in acetone. Freely soluble in chloroform. Slightly soluble in ether.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, light-resistant container in a cool, dry, and well-ventilated place, protected from moisture, humidity, heat, and direct sunlight.

Applications

- Use: Widely used in nutraceutical, dietary supplement, herbal, sports nutrition, and functional food formulations. It is valued for its high piperine content and its use in ingredient absorption-supporting formulations.
- Dosage: Depends on Piperine assay (95%), Intended application, Product formulation, Target consumer population, Regulatory requirements.

Packaging

- Standard Packing: 25 kg woven PP bags with inner liner and 1 Kgs or as per customer requirement.

- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.