



CERTIFICATE OF ANALYSIS

Date:11-15-2023

Product Capsaicin Powder
Part Number Cap2345
Grade USP Grade
Cas Number 404-86-4
Molecular Weight 305.41
Lot No ADCP08A12324
Plant Source Capsicum Annuum
Production Date November 2023
Expiry Date November 2026

Parameters	Specifications	Results
1. Appearance:	Off White Crystalline Powder	Complies
2. Identification (TLC)	Positive	Complies
3. Odour: Penetrating odour	Very high pungent and easily	Complies
4. Total Capsaicinoids	Not less than 95% and not more than 110%	95.75
a. Capsaicin	Not less than 55.0%	60.32
b. Capsaicin+Dihydro Capsaicin	Not less than 75.0%	89.94
c. NDC&Other Capsaicinoids	Not more than 15.0%	03.67
5. Loss on drying	Not more than 1.0%	0.50
6. Residue on ignition	Not more than 1.0%	0.10
7. Residual Solvents Hexane	Not More than 5 ppm	
0.60 ppm Methanol	Not More than 5 Ppm	
0.85 ppm		
8. Melting Point	57-66°C	52-60°C
9. Heavy Metals	<10.0ppm	Complies
10. Arsenic	<2.0ppm	Complies
11. Solubility	Soluble in ethanol, Insoluble in water	Complies
12. Shelf Life	Five Years	
13. Solubility	Alcohol, Benzene, Chloroform & Slightly Soluble in carbon disulfide	Complies
<u>MicroBiological Testing</u>		
1. Total Plate Count	<10 ³ CfU/g	Complies
2. Escherichia Coli	<10 ³ CfU/g	Complies
3. Salmonella Spp	Absent	Complies
4. Yeast & Mould Count	<10 ² CfU/g	Complies

14. **Product Characteristics:** It is highly irritant. Do not handle with bare hands.

Wear suitable protective cloth and masks before handling product. Should be stored in Airtight containers away from direct light and heat. Preferably, store in cool & dry place Below 20°C. Keep reach out of untrained persons. Do Not Expose to Direct Sun- Light
