

CERTIFICATE OF ANALYSIS



Product: **Curcumin 95% 500mg/ Piperine 3mg Capsules**
 IUPAC Name: *(1E,6E)-1,7-bis (4-hydroxy- 3-methoxyphenyl) -1,6- heptadiene-3,5-dione*

Lot Number: CCPCCS1010521UK Capsules per Bottle: 60ct
 Capsule Batch Number: CCPCENZ1020VEG Capsule Size/Color/Material: Size 0, Clear, Vegetable Capsule
 Other Ingredients: None

Curcumin 95% (Synthetic)

Raw Material Batch No: CUR0140620 Appearance: Yellow orangish, fine, free flowing powder
 CAS: 458-37-7 Odor: Thai milk tea
 Molecular Formula: C₂₁H₂₀O₆ Molecular Weight: 368.38 g/mol



FTIR



HPLC



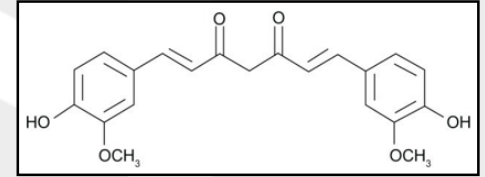
LOSS ON DRYING



ICP-MS



WATER ACTIVITY



Analysis	Specification	Result	Methodology
Identity	Reference Standard	Conforms	FTIR-ATR
Assay	≥ 95% (Dry Basis)	98%	HPLC
Loss on Drying	Report Only	0.86%	Moisture Balance

Heavy Metals	Specification	Result	Methodology
Arsenic	< 0.5 ppm	< 0.2500 ppm	ICP-MS
Cadmium	< 0.5 ppm	< 0.1000 ppm	
Lead	< 0.5 ppm	< 0.1000 ppm	
Mercury	< 0.5 ppm	< 0.0250 ppm	

Microbial Proliferation	Specification	Result	Methodology
All	< 0.73	0.26	Water Activity
Aerobic Plate Count	< 10,000 cfu/g	Conforms	FDA BAM
Yeast and Mold Count	< 1,000 cfu/g	Conforms	
Coliforms	< 100 cfu/g	Conforms	
E. coli	Absent / 10g	Conforms	
Staphylococcus	Absent / 10g	Conforms	
Salmonella spp.	Absent / 25g	Conforms	



CERTIFICATE OF ANALYSIS



Product: **Piperine**
 Botanical Name: *Piper nigrum*

Raw Material Batch No: PPR0250520
 Plant Part: Dried seed
 Extraction Solvent: Ethanol and Water

Appearance: Light yellow, fine, granular powder
 Odor: None



HP-TLC



LOSS ON DRYING



ICP-MS



WATER ACTIVITY



Analysis	Specification	Result	Methodology
Identity (Piper nigrum seed)	Botanical Reference Material	Matches	HP-TLC
Assay (Piperine)	≥ 95% (m/m)	99%	HP-TLC
Loss on Drying	Report Only	0.36%	Moisture Balance

Heavy Metals	Specification	Result	Methodology
Arsenic	< 0.5 ppm	< 0.2500 ppm	ICP-MS
Cadmium	< 0.5 ppm	< 0.1000 ppm	
Lead	< 0.5 ppm	< 0.1000 ppm	
Mercury	< 0.5 ppm	< 0.0250 ppm	

Microbial Proliferation	Specification	Result	Methodology
All	< 0.73	0.26	Water Activity
Aerobic Plate Count	< 10,000 cfu/g	Conforms	FDA BAM
Yeast and Mold Count	< 1,000 cfu/g	Conforms	
Coliforms	< 100 cfu/g	Conforms	
E. coli	Absent / 10g	Conforms	
Staphylococcus	Absent / 10g	Conforms	
Salmonella spp.	Absent / 25g	Conforms	

