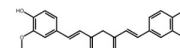


CERTIFICATE OF ANALYSIS

Standard product specification

Curcumin

CAS 458-37-7 · C₂₁H₂₀O₆ · 95% Curcuminoids UV


STRUCTURAL FORMULA

1. PRODUCT IDENTITY

Product name	Curcumin
C.A.S. number	458-37-7
Molecular formula	C ₂₁ H ₂₀ O ₆
Molecular weight	368.39 g/mol
Grade / standard	95% Curcuminoids UV
Description	Bright yellow-orange fine powder
Product group	Standardized Herbal Extracts
Category	Nutraceuticals & Herbal Extracts
Country of origin	India
Packing	Bags, drums, carboys, IBC or ISO tank as applicable — customer-specified packing available
Storage	Cool, dry, well-ventilated place in tightly closed original packing

2. ANALYTICAL SPECIFICATION

S. NO.	TEST PARAMETER	SPECIFICATION	TYPICAL RESULT	METHOD
1	Description	Bright yellow-orange fine powder	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Solubility	As per specification	Complies	Visual / Monograph
4	Assay	Not less than 95.0 % w/w	96.01	Titrimetry / Instrumental
5	Loss on Drying	Not more than 5.0 % w/w	1.74	Gravimetry

6	Total Ash	Not more than 5.0 % w/w	1.56	Gravimetry
7	Bulk Density	As per specification	0.58 g/mL	Tapped density
8	Particle Size — through 80 mesh	Not less than 95 %	96.2	Sieve analysis
9	Pesticide Residues	Complies with USP <561>	Complies	GC-MS / LC-MS
10	Aflatoxins (B1, B2, G1, G2)	Not more than 20 ppb	Less than 2 ppb	HPLC-FLD
11	Residual Solvents	Complies with ICH Q3C	Complies	Headspace GC
12	Lead (Pb)	Not more than 3.0 ppm	Less than 0.5 ppm	ICP-MS
13	Heavy Metals (as Pb)	Not more than 10 ppm	Less than 5 ppm	ICP-OES
14	Total Aerobic Microbial Count	Not more than 1000 cfu/g	128 cfu/g	IP / USP <61>
15	Total Yeast & Mould Count	Not more than 100 cfu/g	5 cfu/g	IP / USP <61>
16	Escherichia coli	Absent in 1 g	Absent	IP / USP <62>
17	Salmonella species	Absent in 10 g	Absent	IP / USP <62>

3. DECLARATION

This document sets out the standard specification for Curcumin and applies to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd. It is not a lot-specific release document; a lot-specific certificate carrying the analysis of the material actually shipped is issued with, and travels with, each consignment. Scapex Exports supplies against customer-specified assay limits and pharmacopoeial standards — send your specification sheet and we confirm compliance in writing before the order is accepted.



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