



INDOFINE Chemical Company, Inc.

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Phone: (908) 359-6778 • FAX: (908) 359-1179

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CERTIFICATE OF ANALYSIS

Catalog Number: C-004 Botanical Source: Curcuma longa L.
Product Name: **CURCUMIN** Molecular Formula: C₂₁H₂₀O₆
CAS Number: [458-37-7] Molecular Weight: 368.39
Lot No.: 1503558

ANALYSIS ITEM	SPECIFICATION	RESULT	METHOD
Appearance	Yellow or orange fine powder	Complies	Visual
Odor	Characteristic	Complies	Organoleptic
Loss on Drying	≤2.0%	1.51%	105°C/3hrs
Residue on Ignition	≤1.0%	Complies	750°C/5hrs
Heavy Metals	<20ppm	Complies	CP2010
Pb	<5ppm	0.050ppm	AAS
As	<3ppm	0.17ppm	AAS
Hg	<0.5ppm	0.30ppm	AAS
Cd	<0.5ppm	0.025ppm	AAS
Solvent Residues			
Ethanol	≤5000ppm	Complies	GC
Methanol	≤50ppm	Complies	GC
Acetone	≤50ppm	Complies	GC
Total Plate Count	<1000cfu/g	23cfu/g	CP2010
Yeast & Mold	<100cfu/g	41cfu/g	CP2010
E.Coli	Negative	Complies	CP2010
Salmonella	Negative	Complies	CP2010
Assay			
Curcuminoids	≥95.0%	99.67%	HPLC
Curcumin	≥65.0%	80.88%	HPLC
Demethoxycurcumin	/	14.65%	HPLC
Bisdemethoxycurcumin	/	4.14%	HPLC

Storage **Store in cool & dry place, Keep away from strong light and heat.**



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HPLC ANALYSIS

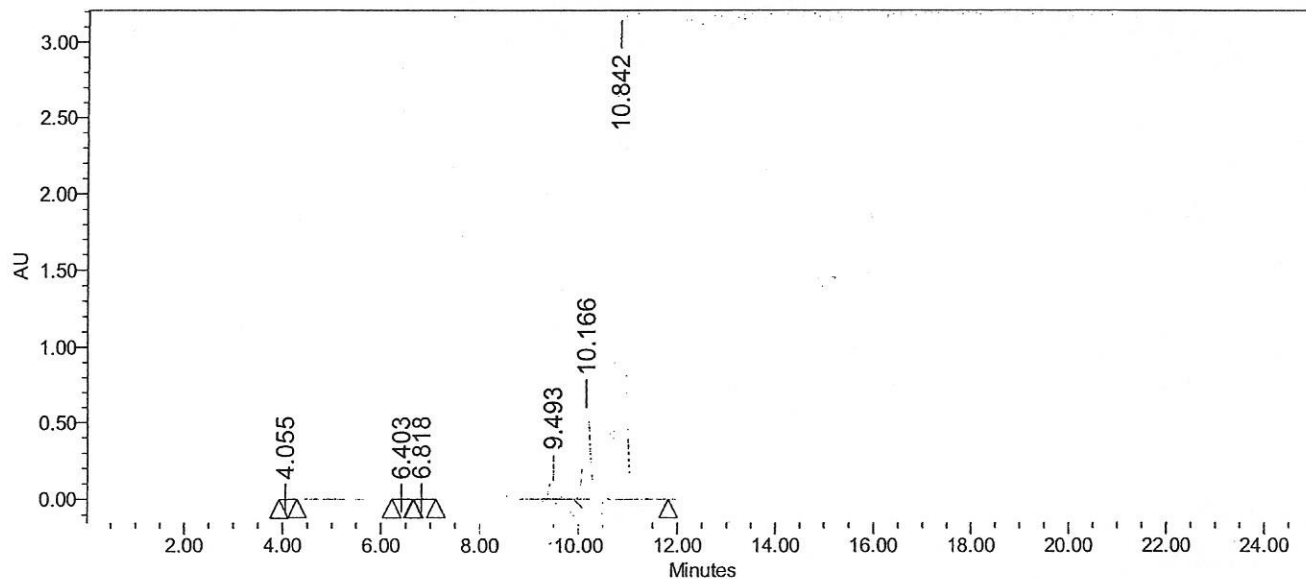
Catalog No.: C-004
Product Name: Curcumin
Lot No.: 1503558

SAMPLE INFORMATION

Sample Name: Curcumin
Sample Type: Unknown
Vial: 73
Injection #: 1
Injection Volume: 10.00 ul
Run Time: 25.0 Minutes

Acquired By: System
Sample Set Name:
Acq. Method Set: Curcumin
Processing Method: Samples
Channel Name: 425.0nm
Proc. Chnl. Descr.: PDA 425.0 nm

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area	% Area	USP Plate Count	USP Resolution
1		4.055	47739	0.11	8393.99	
2		6.403	33885	0.08	9156.67	10.26
3		6.818	65600	0.15	12736.95	0.92
4		9.493	1806541	4.14	26211.90	6.16
5		10.166	6397972	14.65	29037.65	2.77
6		10.842	35326398	80.88	23654.79	2.55