

INDOFINE Chemical Company, Inc.

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Certificate Of Analysis

020306S	LUTEIN	BATCH: 48

IDENTIFICATION

CAS number	[127-40-2]	 1		
Chemical family	Carotenoids			
Synonym	Xanthophyll			
Molecular formula	$C_{40}H_{56}O_2$			
Molecular weight	568.89			

ANALYSIS

TEST	SPECIFICATION (December 2010, version 03)		RESULT
Appearance	Powder		Conform
Melting point	174-181°C		178-179°C
TLC	Silicagel Heptane / acetone (60/40, V/V) Visible		Main spot
UV/Visible spectrum λ max (± 2 nm)	421, 444, 472 nm in methanol + 0.5% methylene chlorid	e	Conform
E1%	2470 ± 100 at 444 nm 2290 ± 100 at 472 nm		2570 2370
Assay (UV)*	≥95%	B	Conform
Date of last QC-recheck Date of retest	February 2013 February 2014		OHOH

^{*}Despite the specific and intensive care taken with these products, they are very fragile. We recommend that you confirm product purity by measuring the E1%

The values given on the 'Certificate of Analysis' are the results determined at the time of analysis.

STORAGE

Store at <-15°C Store away from light HYGHLY UNSTABLE