

Lutein Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Lutein

Catalog No.: CFN99384

Cas No.: 127-40-2

Purity: >=98%

M.F: C₄₀H₅₆O₂

M.W: 568.87

Physical Description: Coppery powder

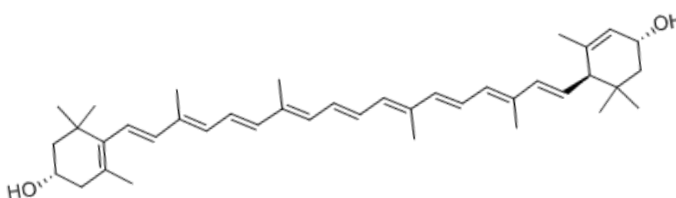
Synonyms: 3,3-Dihydroxy-alpha-carotene; Xanthophyll;

Gamma-Lutein; 4,5-didehydro-5,6-dihydro-beta,beta-carotene-3,3'-diol;

(3R,3'S,6R)-4,5-didehydro-5,6-dihydro-beta,beta-carotene-3,3'-diol;

(3R,3'R,6R)-4,5-didehydro-5,6-dihydro-beta,beta-carotene-3,3'-diol;

(3R,6'R)-4',5'-didehydro-5',6'-dihydro-beta,beta-carotene-3,3'-diol.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Others.

[Source]

The herbs of *Tagetes erecta*.

[Biological Activity or Inhibitors]

Lutein and lycopene has chemopreventive activity, the possible mechanism is their antioxidant effects.^[1]

Nutritional supplementation with lutein or lutein together with antioxidants, vitamins, and minerals, improves visual function and symptoms in atrophic age-related macular degeneration (ARMD). ^[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile(containing 0.05%BHA as antioxidant)- Methanol, gradient elution;

Flow rate: 1.5 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 472 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Frederick K, Beecher G R, Cecil S J. *J.Cell.Biochem. Supp.*, 1995, 22(Supplement 22):236-46.

[2] Richer S, Stiles W, Statkute L, *et al. Optometry.*, 2004, 75(4):216-29.

[3] Khonsarn N, Lawan S. *Int. P. Chem. Biol. Environ.*, 2012,39:240-3.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com