

MP Biomedicals, LLC

29525 Fountain Parkway Solon, Ohio 44139

Telephone: 440/337-1200 Toll Free: 800/854-0530 Fax: 440/337-1180

mailto: biotech@mpbio.com web: http://www.mpbio.com

TECHNICAL INFORMATION

Catalog Number: 198684

Lycopene Structure:

Molecular Formula: C40H56 Molecular Weight: 537 CAS #: 502-65-8

Synonym: y, y carotene

Source: Isolated from commercially-grown tomatoes (L. esculentum) and once recrystallized and hexane washed.

Physical Appearance: Red crystalline needles, store under nitrogen.

Description: Natural tomato lycopene is a mixture of isomers, primarily (all-E), but also some (5-Z) and two lesser and

unidentified cis isomers, all of which are difficult to resolve by LC 1.

Purity: ~90% overall. ~95.0% by visible absorbance measurement (I = 502 nm. e = 1.72 x 105, methylene chloride: hexane 98:2

3 + BHT.) and ~97% peak-pure at 502 nm by LC.

Solubility: Soluble in methylene chloride

References:

- Zumbrunn et al. Helv. Chim. Acta 68, 1540-1542 (1985)
 Zumbrunn et al. Helv. Chim. Acta 68, 1519-1539 (1985)
 Hengartner et al. Helv. Chim. Acta. 75, 1848-1965 (1992)