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## CERTIFICATE OF ANALYSIS

**Cat No.: 020306S**

Product: **LUTEIN with TLC**  
(Xanthophyll/carotene)

Cas Number: [127-40-2]

Lot Number: 11111044

Chemical Formula: C<sub>40</sub>H<sub>56</sub>O<sub>2</sub>

Molecular Weight: 568.89

Melting Point: 174-181°C

Appearance: Red-orange powder

Absorption Maxima: 421,444,472 nm  
in methanol + 0.5% methylene chloride

Thin Layer Chromatography: Support: Silicagel  
Mobile Phase: Heptane/Acetone (60/40:V/V)  
Detection: Visible

Visible Spectrum: 421,444,472 nm

λ<sub>max</sub> (±2 nm): in methanol +0.5% methylene chloride

Storage: -20°C (keep away from light)

Assay (UV): ≥95%

