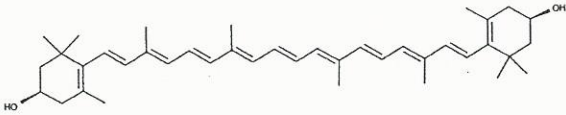


**INDOFINE Chemical Company, Inc.**

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Certificate Of Analysis**020307S****ZEAXANTHIN****Lot No.: 16060241****IDENTIFICATION**

| | | |
|-------------------|--|--|
| CAS number | [144-68-3] |  |
| Molecular formula | C ₄₀ H ₅₆ O ₂ | |
| Molecular weight | 568.89 | |

ANALYSIS

| TEST | SPECIFICATION <i>(December 2010, version 04)</i> | RESULT |
|---------------------------------------|---|--------------|
| Appearance | Powder | Conform |
| Melting point | 203-207°C | 203-204°C |
| TLC | Silicagel Heptane / acetone (60/40, V/V) Visible | Main spot |
| UV/Visible spectrum λ max (± 2 nm) | 423sh, 449, 477 nm in methanol + 0.5% methylene chloride | Conform |
| E1% | 2600 ± 80 at 449 nm 2300 ± 80 at 477 nm | 2620 2330 |
| Assay (UV)* | ≥98% | Conform |
| Date of last QC-recheck | <i>June 2016</i> | |
| Date of retest | <i>June 2017</i> | |

*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