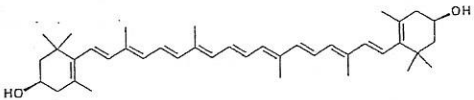


**INDOFINE Chemical Company, Inc.**

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**Certificate Of Analysis****020307S****ZEAXANTHIN****Lot No.: 14103137****IDENTIFICATION**

|                   |  |  |
|-------------------|--|--|
| CAS number        | [144-68-3]                                     |  |
| Chemical family   | Carotenoids                                    |  |
| Molecular formula | C <sub>40</sub> H <sub>56</sub> O <sub>2</sub> |  |
| Molecular weight  | 568.89   |  |

**ANALYSIS**

| <b>TEST</b>                           | <b>SPECIFICATION</b><br><i>(December 2010, version 04)</i>  | <b>RESULT</b> |
|---------------------------------------|---|---------------|
| Appearance                            | Powder  | Conform       |
| Melting point                         | 203-207°C   | 204-205°C     |
| TLC                                   | Silicagel<br>Heptane / acetone (60/40, V/V)<br>Visible      | Main spot     |
| UV/Visible spectrum<br>λ max (± 2 nm) | 423sh, 449, 477 nm<br>in methanol + 0.5% methylene chloride | Conform       |
| E1%                                   | 2600 ± 80 at 449 nm<br>2300 ± 80 at 477 nm                  | 2670<br>2380  |
| Assay (UV)*                           | ≥98%  | Conform       |
| Date of last QC-recheck               | <i>October 2014</i>   |               |
| Date of retest                        | <i>October 2015</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