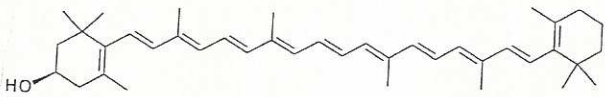


**INDOFINE Chemical Company, Inc.**

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Certificate Of Analysis**020317S****β-CRYPTOXANTHIN****Lot No.: 13081945****IDENTIFICATION**

| | | |
|-------------------|-----------------------------------|--|
| CAS number | [472-70-8] |  |
| Chemical family | Carotenoids | |
| Molecular formula | C ₄₀ H ₅₆ O | |
| Molecular weight | 552.89 | |

ANALYSIS

| TEST | SPECIFICATION <i>(November 2012, version 03)</i> | RESULT |
|---------------------------------------|--|--------------|
| Appearance | Powder | Conform |
| Melting point | 159-165°C | 163-164°C |
| TLC | Silicagel Heptane / acetone (75/25, V/V) Visible | Main spot |
| UV/Visible spectrum λ max (± 2 nm) | 427sh, 451, 479 nm in heptane + 0.5% methylene chloride | Conform |
| E1% | 2490 ± 100 at 451 nm 2200 ± 100 at 479 nm | 2520 2220 |
| Assay (UV)* | ≥97% | Conform |
| Date of last QC-recheck | April 2013 | |
| Date of retest | April 2014 | |

*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