

## PRODUCT IDENTITY

|                 |                                      |                |                                                |
|-----------------|--------------------------------------|----------------|------------------------------------------------|
| PRODUCT NAME    | Astaxanthin                          | PRODUCT NUMBER | A114383                                        |
| Grades & Purity | ≥98%(HPLC), mixture of cis and trans | VERSION        | 3                                              |
| CAS NUMBER      | 472-61-7                             | FORMULA        | C <sub>40</sub> H <sub>52</sub> O <sub>4</sub> |
| FORMULA WEIGHT  | 596.84g/mol                          |                |                                                |

## ACCEPTANCE CRITERIA

| PARAMETER                                      | SPECIFICATION / LIMIT       |
|------------------------------------------------|-----------------------------|
| Carbon by Elemental Analysis                   | 78.1-80.9 (%)               |
| Purity(Mixture of cis and trans isomers ,HPLC) | 98-100 (%)                  |
| Appearance (A114383)                           | Purple to Dark Purple Solid |
| Mass spectrum                                  | Conforms to standard        |