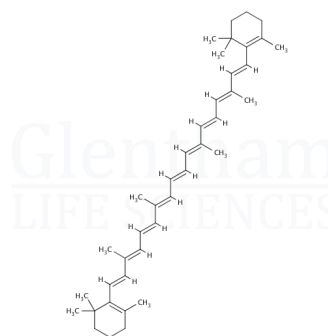


## Certificate of Analysis

Product Name beta-Carotene  
Glentham Code GP8334  
CAS Number 7235-40-7  
EINECS 230-636-6  
MDL Number MFCD00001556  
Batch Number 184JDV

Molecular Weight 536.87  
Molecular Formula  $C_{40}H_{56}$   
Storage Temp. -20°C



| Property                                                                        | Specification                                | Batch 184JDV             |
|---------------------------------------------------------------------------------|----------------------------------------------|--------------------------|
| Physical Description                                                            | Red to dark red, orange or brown-red powder  | Red powder               |
| Identification (IR)                                                             | To conform to standard                       | Conforms to standard     |
| Solubility (0.1% in chloroform)                                                 | Clear, red to dark red solution              | Clear, dark red solution |
| Wavelength of Maximum Absorption ( $\lambda_{max}$ ) approx. 455 nm (in hexane) |                                              | 455nm                    |
| Specific Absorption (E1%/1cm)                                                   | $\geq 2250$ (at $\lambda_{max}$ , in hexane) | 2315                     |
| Assay (UV)                                                                      | 90.0 - 103.0 %                               | 92.6%                    |
| Specification Version                                                           | v1.2                                         |                          |
| Manufacture Date                                                                | 2024-04-07                                   |                          |
| Re-Test Date                                                                    | 2031-11-13                                   |                          |

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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