

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-12-06 13:56:35  
Date of Next Testing: 2026-12-06 13:56:35  
Product Name: **Natrual  $\beta$ -Carotene**  
CAS Number: 7235-40-7  
Specifications & Purity:  $\geq 96\%$ (HPLC)  
Lot #: K2429642  
SKU #: **C110501**  
Version: **0**  
Analysis #: **429759**  
Storage Temperature: Store at  $-20^{\circ}\text{C}$ , Argon charged

| Parameter  | Limit Values             | Result                   |
|--|--------------------------|--------------------------|
| Heavy metals   | 0-0.001 (%)              | 0.00 %                   |
| Purity(HPLC)   | 96-100 (%)               | 98.35800 %               |
| Loss on drying (40°C,2h,reduce pressure,dryer:P2O5)                          | 0-0.2 (%)                | 0.01 %                   |
| Loss on drying   | 0-0.2 (%)                | 0.11 %                   |
| Appearance (C110501)   | red to dark brown powder | red to dark brown powder |
| Carbon NMR Spectrum  | Conforms to Structure    | Conforms to Structure    |
| Infrared spectrum  | Conforms to Structure    | Conforms to Structure    |
| Solubility in CHCL <sub>3</sub> , Dark Red to Dark Red-Brown,Clear,1 mg+1 mL | pass                     | Pass                     |



John Su  
QA & QC Manager