

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-12-06 13:28:37
 Date of Next Testing: 2026-12-06 13:28:37
 Product Name: **Natrual β -Carotene**
 CAS Number: 7235-40-7
 Specifications & Purity: $\geq 96\%$ (HPLC)
 Lot #: K2429640
 SKU #: **C110501**
 Version: **0**
 Analysis #: **429759**
 Storage Temperature: Store at -20°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 ₃ , Dark Red to Dark Red-Brown,Clear,1 mg+1 mL | pass | Pass |



John Su
QA & QC Manager