

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-12-06 13:42:53  
 Date of Next Testing: 2026-12-06 13:42:53  
 Product Name: **Natrual  $\beta$ -Carotene**  
 CAS Number: 7235-40-7  
 Specifications & Purity:  $\geq 96\%$ (HPLC)  
 Lot #: K2429641  
 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 <sub>3</sub> , Dark Red to Dark Red-Brown,Clear,1 mg+1 mL	pass	Pass



John Su  
QA & QC Manager