

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-09-13 10:51:59  
Date of Next Testing: 2026-09-12 10:51:59  
Product Name: (4R,5R,6S)-4-Nitrobenzyl 3-((diphenoxyphosphoryl)oxy)-6-((R)-1-hydroxyethyl)-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylate  
CAS Number: 90776-59-3  
Specifications & Purity: 97%  
Lot #: I2311414  
SKU #: R195757  
Analysis: 268184  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC area)	97-100 (%)	98.44 %
specific rotation $[\alpha]_{20/D}(c=0.5g/50ml, \text{ acetonitrile})$	54-59 (°)	56.67400°
Appearance(R195757)	White to off-white to light yellow powder to crystal	White to off-white to Light yellow powder to crystal
LC-MS for identification	Conforms	Conforms
NMR Spectrum 1H	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager