

ALADDIN SCIENTIFIC CORPORATION

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## Certificate of Analysis

Date of Testing: 2026-06-17 10:30:23  
Date of Next Testing: 2028-06-16 10:30:23

Product Name: Certolizumab (anti-TNF $\alpha$ )  
Lot #: ZJ24F0910162  
SKU #: Ab182790  
Version: 1  
Analysis #: 037300  
Clone ID:

Isotype: Human IgG1  
Source: CHO supernatant  
Formulation: Liquid  
Concentration: 5.09mg/mL  
Buffer Solution: Supplied as a 0.22 $\mu$ m filtered solution in 100mM Pro-Ac, 20mM Arg, pH 5.0

Storage Conditions: Store at -80°C, Avoid repeated freeze-thaw cycles  
Analysis: 037300

Parameter	Limit Value	Result
Molecular Weight	135-185(kD)	185.00000 kD
Purity(SDS-PAGE)	95-100(%)	100.00000 %
Purity (SEC)	95-100(%)	100.00000 %
Appearance(Ab182790)	Colourless liquid	Colourless liquid
Endotoxin Level < 1 EU/mg	Conform	Conform
TNF- $\alpha$ binding	Conform	Conform



Sophia Cheng  
Quality Assurance