CERTIFICATE OF ANALYSIS

Complement Technology, Inc.

Product: C1q-Dpl 4801 Troup Hwy, Suite 701 Catalog # A300 Lot #

Tyler, Texas 75703, USA Exp. Date:

<u>Description</u>: C1q-Depleted Human Serum

Specifications	Limits	Results	
<u>opecinications</u>	<u>Limits</u>	<u>itesuits</u>	
PROTEIN CONCENTRATION	\geq 40 mg/ml using an extinction coefficient of $E^{1\%}/_{280 \text{ nm}} = 10$	64 mg/mL	
FILL VOLUME	1.0 – 1.1 mL	1.05 mL	
PHYSICAL APPEARANCE	Clear, straw colored	Clear, straw colored	
BUFFER	Phosphate Buffered Saline, pH 7.4	Conforms	
PRESERVATIVE	None, filtered through a 0.22 µm pore size filter	None, filtered through a 0.22 µm pore size filter	
CLASSICAL PATHWAY ACTIVITY*			
Recommended volume of C1q-Dpl serum per assay	40 μL or less	5 μL	
C1qH50 Units/mg purified C1q at the recommended input of C1q-Dpl	≥12,500 Units/mg	887,000 Units/mg	
Input of purified C1q to yield 1 Unit	≤ 80 ng/Unit	1.13 ng/Unit	
C1qH50 Units/ml NHS Complement Std (at 70 µg C1q/ml) at the recommended input of C1q-Dpl	≥ 3,500 Units/ml	77,000 Units/ml	
Input of C1q in NHS Std to yield 1 Unit	≤ 20 ng/Unit	0.91 ng/Unit	
Ratio: C1qH50/mg C1q C1qH50/mg C1q in NHS Std	≥ 0.2	0.81	
Background A ₄₁₂ EA blank reading at the recommended input of C1q-Dpl	≤ 0.250	0.012	
CH50 FUNCTIONAL ACTIVITY UPON RECONSTITUTION**			
CH50/mL NHS Standard	≥ 75 CH50/mL	222 CH50/mL	
CH50/mL C1q-Dpl reconstituted with 100 µg C1q/mL	≥ 40 CH50/mL	256 CH50/mL	
Ratio: CH50/mL C1q-Dpl + C1q CH50/mL NHS Std	≥ 0.50	1.15	

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Product: C1q-Dpl # 24 (continued)

ALTERNATIVE PATHWAY (AP) ACTIVITY***

APH50/mL NHS Standard > 50 APH50/mL 250 APH50/mL

Input NHS Std to yield 1 APH50 < 20 µL 4.0 µL

APH50/mL C1q-Dpl > 50 APH50/mL 328 APH50/mL

Input C1q-Dpl to yield 1 APH50 \leq 20 μ L 3.05 μ L

AP Ratio APH50/mL C1q-Dpl \geq 0.50 1.3 APH50/mL NHS Std

IMMUNOCHEMICAL ANALYSIS

Ouchterlony No C1q antigen detectable using various dilutions of goat anti-

human C1g antiserum

Conforms

HUMAN SERUM/PLASMA STARTING MATERIAL

HBsAg	Negative	Negative
Anti-HBc antibodies	Negative	Negative
Anti-HIV-I and 2 plus O antibodies	Negative	Negative
Anti-HCV antibodies	Negative	Negative
Anti-Syphilis antibodies	Negative	Negative
HCV by NAT	Negative	Negative
HIV by NAT	Negative	Negative
HTLV 1 and 2	Negative	Negative
West Nile Virus (WNV)	Negative	Negative

^{*} One C1qH50 unit measured by classical pathway activation is defined as the amount of C1q required to yield 50% lysis of $3x10^7$ EA when incubated in the presence of the recommended volume of C1q-Dpl serum for 30 minutes at 37 °C in a total reaction volume of 500 µL GVB⁺⁺.

STORE AT -70°C or BELOW. Thaw quickly at 37°C, mix, and put in an ice+water bath to cool. Avoid Repeated Freeze/Thaw

FOR RESEARCH USE ONLY NOT FOR HUMAN OR DRUG USE

Signature of Analyst	Date of Analysis

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^{**} One CH50 unit is defined as the input of C1q-Dpl, reconstituted with C1q, or NHS Complement Standard yielding 50% lysis of 1x10⁸ EA when incubated for 60 minutes at 37 °C in a total reaction volume of 1.5 mL GVB⁺⁺.

^{***} One unit of whole alternative pathway activity (APH50) is defined as the input of C1q-Dpl or NHS Complement Standard yielding 50% lysis of 1.5x10⁷ rabbit erythrocytes (Er) when incubated for 30 minutes at 37 °C in a total reaction volume of 100 µL GVB° containing a final Mq-EGTA concentration of 10 mM.