CERTIFICATE OF ANALYSIS

Complement Technology, Inc.

4801 Troup Hwy, Suite 701 Tyler, Texas 75703, USA Product: C4/FB-Dpl Catalog # A385 Lot # Exp. Date:

<u>Description</u>: Complement C4 and Factor B (fB)-Depleted Human Serum made by immunoaffinity chromatography

Specifications	<u>Limits</u>	<u>Results</u>
PROTEIN CONCENTRATION	≥40 mg/mL employing an extinction coefficient of E1%/280nm = 10.0	66 mg/mL
FILL VOLUME	0.50 – 0.55 mL	0.52 mL
PHYSICAL APPEARANCE	Clear, straw colored	Conforms
BUFFER	Phosphate buffered saline, pH 7.3	Conforms
PRESERVATIVE	None, filtered through a 0.22 µm pore size filter.	Conforms

CLASSICAL PATHWAY (CP) FUNCTIONAL ACTIVITY (CH50) *

NHS Std > 75 CH50/mL 175 CH50/mL 10 CH50/mL Un-constituted C4/FB-Dpl < 1.0 CH50/mL Ratio CH50/mL C4/FB-Dpl x100 <u><</u> 10% < 1% CH50/mL NHS Std 159 CH50/mL Reconstituted C4/FB-Dpl (+ 0.4mg C4 & 0.2mg FB/mL) <u>></u> 60 CH50/mL Ratio CH50/mL C4/FB-Dpl + C4 & FB x100 > 60% 91% CH50/mL NHS Std

ALTERNATIVE PATHWAY (AP) FUNCTIONAL ACTIVITY (AP50) **

NHS Std Input NHS Std to yield 1 APH50 Un-constituted C4/FB-Dpl Ratio <u>AP50/mL C4/FB-Dp</u>l x100 AP 50/mL NHS Std

_ 20 μL ≤ 10 AP50/mL ≤ 10%

> 50 AP50/mL

182 AP50/mL 5.5 μL < 1 AP50/mL < 1%

Reconstituted C4/FB-Dpl (+ 0.40mg C4 & 0.2 mg FB/mL) Input C4/FB-Dpl with C4 & FB to yield 1 AP50 Ratio <u>AP50/mL C4/FB-Dpl + C4 & FB</u>x100 AP50/mL NHS Std

≥ 50 AP50/mL ≤ 20 µL ≥ 60% 154 AP50/mL 6.5 μL 85%

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Complement C4/FB-Depleted Human Serum, Lot 2 (Continued)

IMMUNOCHEMICAL ANALYSIS

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No C4 or Factor B antigen detectable Conforms using various dilutions of anti-Human C4 & anti-Human Factor B antiserum

STARTING MATERIAL: HUMAN SERUM/PLASMA

Anti-HBc	Negative	Negative
HBsAg	Negative	Negative
Anti-HCV	Negative	Negative
Anti-HIV 1 and 2 Plus O	Negative	Negative
HTLV I/II	Negative	Negative
HIV-1/HCV/HBV by NAT	Negative	Negative
Anti-Syphilis	Negative	Negative
West Nile Virus (WNV) by NAT	Negative	Negative
Chagas	Negative	Negative
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SAFETY PRECAUTIONS: This product is derived from human blood and although it tested negative for HIV antibodies and Hepatitis B and C it should be handled with appropriate precautions including wearing gloves and safety glasses.

* One unit of classical pathway activity (CH50) is defined as the input of C4/FB-Dpl or C4/FB-Dpl reconstituted with purified C4 and Factor B, or NHS Complement Standard yielding 50% lysis of 1 x 10⁸ EA when incubated for 60 minutes at 37°C in a total reaction volume of 1.5 mL GVB⁺⁺.

** One unit of alternative pathway activity (APH50) is defined as the input of C4/FB-Dpl or C4/FB-Dpl reconstituted with purified C4 and Factor B or NHS Complement Standard yielding 50% lysis of 1.5 x 10⁷ rabbit erythrocytes (Er) when incubated for 30 min. at 37°C in a total reaction volume of 100μL GVB° containing a final Mg-EGTA concentration of 5 mM.

STORE AT -70°C or BELOW. Avoid Repeated Freeze/Thaw Thaw quickly at 37°C, mix, and put in an ice+water bath to cool. FOR RESEARCH USE ONLY NOT FOR HUMAN OR DRUG USE

Signature of Analyst

Date of Analysis