**Complement Technology, Inc.** 

Product: C2-Dpl 4801 Troup Hwy, Suite 701 Catalog # A312 Lot #

Tyler, Texas 75703, USA Exp. Date:

<u>Description</u>: Complement C2-Depleted Human Serum

<b>Specifications</b>	<u>Limits</u>	Results		
PROTEIN CONCENTRATION	≥40 mg/mL employing an extinction coefficient of E1%/280nm = 10	58 mg/mL		
FILL VOLUME	1.0 - 1.1 mL	1.1 mL		
PHYSICAL APPEARANCE	Clear, straw colored	Clear, straw colored		
BUFFER	Phosphate Buffered Saline, pH7.2	Conforms		
PRESERVATIVE	None, filtered through a 0.22 µm pore size filter.	None, filtered through a 0.22 µm pore size filter.		
CLASSICAL PATHWAY (CP) ACTIVITY*				
Recommended volume of C2-Dpl serum per assay	≤ 40 µL	18 μL		
C2H50 units/mg purified C2 at the recommended input of C2-Dpl	≥ 143,000 Units/mg	7,257,000 Units/mg		
Input of purified C2 to yield 1 C2H50	≤ 7 ng	0.14 ng		
C2H50/mL NHS Complement Std at the recommended input of C2-Dpl	≥ 3,600 Units/mL	151,000 Units/mL		
Input of C2 in NHS Complement Std to yield 1 C2H50	≤ 5 ng	0.13 ng		
CP Ratio: C2H50/mg Purified C2 C2H50/mg C2 in NHS Std	≥ 0.60	0.96		
Background A <sub>412</sub> EA blank reading at the recommended input of C2-Dpl	≤ 0.200	0.106		
CH50 FUNCTIONAL ACTIVITY UPON RECONSTITUTION**				
CH50/mL NHS Std	≥ 75 CH50/mL	208 CH50/mL		
CH50/mL C2-Dpl reconstituted with 25 µg C2/mL	≥ 75 CH50/mL	222 CH50/mL		
Ratio: CH50/mL C2-Dpl + C2 CH50/mL NHS Std	≥ 0.50	1.06		

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## Complement C2-Depleted Human Serum, Lot # 18b (Continued)

## ALTERNATIVE PATHWAY (AP) ACTIVITY \*\*\*

APH50/mL NHS std	≥ 50 APH50/mL	181 APH50/mL
Input NHS Std to yield 1 APH50	<u>&lt;</u> 20 μL	5.5 µL
APH50/mL C2-Dpl	≥ 50 APH50/mL	181 APH50/mL
Input C2-Dpl to yield 1 APH50	<u>&lt;</u> 20 μL	5.5 μL
AP Ratio: <u>APH50/mL C2-Dpl</u> APH50/mL NHS Std	> 0.60	1.0

IMMUNOCHEMISTRY

Ouchterlony No C2 antigen detectable using Conforms

various dilutions of goat anti-C2

## STARTING MATERIAL: HUMAN SERUM/PLASMA

HBsAg	Negative	Negative
Anti-HBc	Negative	Negative
Anti-HCV 3.0	Negative	Negative
Anti-HIV 1 and 2 Plus O	Negative	Negative
Anti-HCV	Negative	Negative
Anti-Syphilis	Negative	Negative
HIV-1/HCV/HBV by NAT	Negative	Negative
West Nile Virus (WNV) by NAT	Negative	Negative
HTLV 1I and II	Negative	Negative

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 of gloves and safety glasses.

## 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 and NOT FOR HUMAN OR DRUG USE

Signature of Analyst Date of Analysis

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<sup>\*</sup> One C2H50 unit measured by classical pathway activation is defined as the amount of C2 required to yield 50% lysis of 3 x 10<sup>7</sup> EA when incubated in the presence of the recommended volume of C2-Dpl serum for 30 minutes at 37°C in a total reaction volume of 500 uL GVB<sup>++</sup>.

<sup>\*\*</sup> One CH50 unit is defined as the input of C2-Dpl, reconstituted with C2, or NHS Complement Std yielding 50% lysis of 1 x 10<sup>8</sup> EA when incubated for 60 minutes at 37°C in a total reaction volume of 1.5 mL GVB\*\*.

<sup>\*\*\*</sup> One unit of alternative pathway activity (APH50) is defined as the input of C2-Dpl or NHS Complement Std yielding 50% lysis of 1.5 x  $10^7$  rabbit erythrocytes (Er) when incubated for 30 minutes at  $37^{\circ}$ C in a total reaction volume of 100  $\mu$ L GVB° containing a final Mg-EGTA concentration of 5 mM.