Complement Technology, Inc.

Product: C5-Dpl 4801 Troup Hwy, Suite 701 Catalog # **A320** Lot #

Tyler, Texas 75703, USA Exp. Date:

<u>Description</u>: Complement C5-Depleted Human Serum

| Specifications | <u>Limits</u> | Results | |
|---|---|--|--|
| PROTEIN CONCENTRATION | ≥40 mg/mL employing an extinction coefficient of E1%/280nm = 10 | 65 mg/ml | |
| FILL VOLUME | 1.0 – 1.2 mL | 1.1 mL | |
| PHYSICAL APPEARANCE | Clear, straw colored | Clear, straw colored | |
| BUFFER | 10 mM sodium phosphate, 145 mM sodium chloride, 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 (CP) ACTIVITY* | | | |
| Recommended volume of C5-Dpl serum per assay | ≤ 40 µL | 30 µL | |
| C5H50 units/mg purified C5 at the recommended input of C5-Dpl | ≥ 100,000 Units/mg | 415,000 Units/mg | |
| Input of purified C5 to yield 1 C5H50 | ≤ 15 ng | 2.4 ng | |
| C5H50/mL NHS Complement Std at the recommended input of C5-Dpl | ≥ 10,000 Units/mL | 37,000 Units/mL | |
| Input of C5 in NHS Complement Std to yield 1 C5H50 | ≤ 7.5 ng | 2.0 ng | |
| CP Ratio: <u>C5H50/mg PurifiedC5</u> C5H50/mg C5 in NHS Std | ≥ 0.60 | 0.85 | |
| Background A ₄₁₂ EA blank reading at the recommended input of C5-Dpl | ≤ 0.100 | 0.018 | |
| CH50 FUNCTIONAL ACTIVITY UPON RECONSTITUTION** | | | |
| CH50/mL NHS Std | ≥ 75 CH50/mL | 166 CH50/mL | |
| CH50/mL C5-Dpl reconstituted with 100 μg C5/mL | ≥ 50 CH50/mL | 208 CH50/mL | |
| Ratio: CH50/mL C5-Dpl + C5 CH50/mL NHS Std | ≥ 0.60 | 1.3 | |

Phone: 1-903-581-8284 FAX: 1-903-581-0491 Email: contactCTI@aol.com

Web Site: www.ComplementTech.com

Complement C5-Depleted Human Serum, Lot # 19 (Continued)

ALTERNATIVE PATHWAY (AP) ACTIVITY ***

Input NHS Std to yield 1 APH50 \leq 20 μ L 5 μ L

APH50/mL C5-Dpl + C5 > 30 APH50/mL 190 APH50/mL

Input C5-Dpl + C5 to yield 1 APH50 < 33 μL 5.5 μL

AP Ratio: APH50/mL C5-Dpl + C5 > 0.60 1.0

APH50/mL NHS Std

IMMUNOCHEMISTRY

Ouchterlony No C5 antigen detectable using Conforms

various dilutions of goat anti-C5

STARTING MATERIAL: HUMAN SERUM/PLASMA

| HBsAg 3.0 | Negative | Negative |
|------------------------------|----------|----------|
| Anti-HIV 1 and 2 Plus O | Negative | Negative |
| Anti-HCV 3.0 | Negative | Negative |
| HIV-1/HCV/HBV by NAT | Negative | Negative |
| West Nile Virus (WNV) by NAT | Negative | Negative |
| Anti-Syphilis | 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 NOT FOR HUMAN OR DRUG USE

| Signature of Analyst | Date of Analysis |
|----------------------|------------------|

Phone: 1-903-581-8284 FAX: 1-903-581-0491 Email: contactCTI@aol.com

Web Site: www.ComplementTech.com

^{*} One C5H50 unit measured by classical pathway activation is defined as the amount of C5 required to yield 50% lysis of 3 x 10⁷ EA when incubated in the presence of the recommended volume of C5-Dpl serum for 30 minutes at 37°C in a total reaction volume of 500 uL GVB⁺⁺.

^{**} One CH50 unit is defined as the input of C5-Dpl, reconstituted with C5, or NHS Complement Std. yielding 50% lysis of 1 x 10⁸ EA when incubated for 60 minutes at 37°C in a total reaction volume of 1.5mL GVB⁺⁺.

^{***} One unit of alternative pathway activity (APH50) is defined as the input of C5-Dpl, reconstituted with 100ug/ml purified C5 or NHS Complement Standard yielding 50% lysis of 1.5 x 10^7 rabbit erythrocytes (Er) when incubated for 30 minutes at 37° C in a total reaction volume of $100 \, \mu L \, GVB^{\circ}$ containing a final MgEGTA concentration of 5 mM.