Complement Technology, Inc.

Product: C7-Dpl 4801 Troup Hwy, Suite 701 Catalog # A324 Lot #

Tyler, Texas 75703, USA Exp. Date:

<u>Description</u>: Complement C7-Depleted Human Serum

| Specifications | <u>Limits</u> | <u>Results</u> | | |
|---|---|--|--|--|
| 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 | Phosphate Buffered Saline, pH 7.2 – 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 C7-Dpl serum per assay | ≤ 40 µL | 20 μL | | |
| C7H50 units/mg purified C7 at the recommended input of C7-Dpl | ≥ 100,000 C7H50 Units/mg | 606,000 Units/mg | | |
| Input of purified C7 to yield 1 C7H50 | ≤ 10 ng | 1.65 ng | | |
| C7H50/mL NHS Complement Std at the recommended input of C7-Dpl | ≥ 4,600 C7H50 Units/mL | 15,900 Units/mL | | |
| Input of C7 in NHS Complement Std to yield 1 C7H50 | <u><</u> 6 ng | 3.51 ng | | |
| CP Ratio: <u>C7H50/mg purified C7</u> C7H50/mg C7 in NHS Std | ≥ 0.60 | 2.13 | | |
| Background A ₄₁₂ EA blank reading at the recommended input of C7-Dpl | <u><</u> 0.100 | 0.021 | | |
| CH50 FUNCTIONAL ACTIVITY UPON RECONSTITUTION** | | | | |
| CH50/mL NHS Std | ≥ 75 CH50/mL | 147 CH50/mL | | |
| CH50/mL C7-Dpl reconstituted with 60 µg C7/mL | ≥ 50 CH50/mL | 158 CH50/mL | | |
| Ratio: CH50/mL C7-DpI + C7 CH50/mL NHS Std | <u>></u> 0.60 | 1.07 | | |

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Web Site: www.ComplementTech.com

Complement C7-Depleted Human Serum, Lot # 4 (Continued)

ALTERNATIVE PATHWAY (AP) ACTIVITY ***

| APH50/mL NHS Standard | ≥ 50 APH50/mL | 182 APH50/mL |
|---|--|--------------|
| Input NHS Std to yield 1 APH50 | <u><</u> 20 μL | 5.5 µL |
| APH50/mL C7-DpI + C7 | ≥ 30 APH50/mL | 208 APH50/mL |
| Input C7-Dpl + C7 to yield 1 APH50 | ≤ 33 µL | 4.8 µL |
| AP Ratio: <u>APH50/mL C7-Dpl + C7</u> APH50/mL NHS Std | > 0.60 | 1.14 |
| IMMUNOCHEMISTRY ANALYSIS Ouchterlony | No C7 antigen detectable using various dilutions of goat anti-human C7 antiserum | Conforms |

STARTING MATERIAL: HUMAN SERUM/PLASMA

| HBsAg | Negative | Negative |
|------------------------------|----------|----------|
| Anti-HBc | 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 1 and 2 | 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

| | <u> </u> |
|----------------------|------------------|
| Signature of Analyst | Date of Analysis |

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^{*} One C7H50 unit measured by classical pathway activation is defined as the amount of C7 required to yield 50% lysis of 3 x 10⁷ EA when incubated in the presence of the recommended volume of C7-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 C7-Dpl, reconstituted with C7, or NHS Complement Sandard 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 C7-Dpl, reconstituted with purified C7 or C7 in NHS Complement Standard yielding 50% lysis of 1.5 x 10⁷ rabbit erythrocytes (Er) when incubated for 30 minutes at 37°C in a total reaction volume of 100 µL GVB° containing a final Mg-EGTA concentration of 5 mM.