

# CERTIFICATE OF ANALYSIS

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**Complement Technology, Inc.**  
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Tyler, Texas 75703, USA

Product: **C3/C4-Dpl**  
Catalog # **A340** Lot #  
Exp. Date:

Description: Complement C3/C4-Functionally Depleted Human Serum

<u>Specifications</u>	<u>Limits</u>	<u>Results</u>
PROTEIN CONCENTRATION	$\geq 40$ mg/mL employing an extinction coefficient of $E_{1\%/280\text{nm}} = 10.0$	64 mg/ml
FILL VOLUME	1.0 – 1.2 mL	1.05 mL
PHYSICAL APPEARANCE	Clear, straw colored	Clear, straw colored
BUFFER	10 mM sodium phosphate, 140 mM sodium chloride, pH 7.3	Conforms
PRESERVATIVE	None, filtered through a 0.22 $\mu\text{m}$ pore size filter.	None, filtered through a 0.22 $\mu\text{m}$ pore size filter.
<u>CH50 FUNCTIONAL ACTIVITY *</u>		
NHS Std	$\geq 75$ CH50/mL	170 CH50/mL
Un-reconstituted C3/C4-Dpl	$\leq 10$ CH 50/mL	<1 CH50/ml
Un-reconstituted % Activity (Compared to NHS) $\frac{\text{CH50/mL C3/C4-Dpl} \times 100}{\text{CH50/mL NHS Std}}$	$\leq 5\%$	<1%
Reconstituted C3/C4-Dpl (+ 1.2 mg C3 and 400 $\mu\text{g}$ C4 /ml)	$\geq 60$ CH50/mL	161 CH50/ml
Reconstituted % Activity (Compared to NHS) $\frac{\text{CH50/mL C3/C4-Dpl} + \text{C3} + \text{C4} \times 100}{\text{CH50/mL NHS Std}}$	$\geq 60\%$	95%
<u>ALTERNATIVE PATHWAY (AP) ACTIVITY **</u>		
NHS Std	$\geq 60$ AP50/mL	133 AP50/mL
Un-reconstituted C3/C4-Dpl	$\leq 10$ AP 50/mL	<3 AP50/mL
Un-reconstituted % Activity (Compared to NHS) $\frac{\text{AP50/mL C3/C4-Dpl} \times 100}{\text{AP50/mL NHS Std}}$	$\leq 5\%$	<2%
Reconstituted C3/C4-Dpl (+ 1.2 mg C3 and 400 $\mu\text{g}$ C4 /ml)	$\geq 60$ AP50/mL	130 AP50/mL
Reconstituted % Activity (Compared to NHS) $\frac{\text{AP50/mL C3/C4-Dpl} + \text{C3} + \text{C4} \times 100}{\text{AP50/mL NHS Std}}$	$\geq 60\%$	98%

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## Complement C3/C4-Functionally Depleted Human Serum, Lot #7 (Continued)

### STARTING MATERIAL: HUMAN SERUM/PLASMA

HBsAg	Negative	Negative
anti-HIV 1/2 ANTIBODIES	Negative	Negative
anti-HCV ANTIBODIES	Negative	Negative
HCV by NAT	Negative	Negative
HIV by NAT	Negative	Negative
HBV by NAT	Negative	Negative
WNV by NAT	Negative	Negative
anti-Syphilis	Negative	Negative
Zika RNA by NAT	Negative	Negative
anti-HBc ANTIBODIES	Negative	Negative
anti-HTLV-I/II ANTIBODIES	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.

\* One CH50 unit is defined as the input of C3/C4-Dpl, with or without reconstitution with C3 & C4, or NHS Complement Std. yielding 50% lysis of  $1 \times 10^8$  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 C3/C4-Dpl, with or without reconstitution with C3 & C4 or NHS Complement Std yielding 50% lysis of  $1.5 \times 10^7$  rabbit erythrocytes (Er) when incubated for 30 minutes at 37°C in a total reaction volume of 100  $\mu$ L GVB<sup>o</sup> containing a final Mg-EGTA concentration of 5 mM.

**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**

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Signature of Analyst

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Date of Analysis