Complement Technology, Inc.

Product: C3/C5-Dpl 4801 Troup Hwy, Suite 701 Catalog # A342 Lot #

Tyler, Texas 75703, USA Exp. Date:

Description: Complement C3 and C5-Depleted Human Serum made by immunoaffinity chromatography

<u>Specifications</u>	<u>Limits</u>	<u>Results</u>
PROTEIN CONCENTRATION	≥40 mg/mL employing an extinction coefficient of E1%/280nm = 10.0	63 mg/ml
FILL VOLUME	0.50 - 0.55 mL	0.53 mL
PHYSICAL APPEARANCE	Clear, straw colored	Conforms
BUFFER	10 mM sodium phosphate, 140 mM sodium chloride, pH 7.3	Conforms
PRESERVATIVE	None, filtered through a 0.22 µm pore size filter.	Conforms
CLASSICAL PATHWAY (CP) FUNCTION	AL ACTIVITY (CH50) *	
NHS Std	≥ 75 CH50/mL	175 CH50/mL
Un-reconstituted C3/C5-DpI	≤ 10 CH50/mL	<1 CH50/ml
Un-reconstituted % Activity compared to NHS <u>CH50/mL C3/C5-Dpl</u> x100 CH50/mL NHS Std	≤ 10%	<1%
Reconstituted C3/C5-Dpl (+ 1.2 mg C3 and 75 µg C5/ml)	≥ 60 CH50/mL	175 CH50/ml
Reconstituted % Activity with C3 & C5 compare CH50/mL C3/C5-Dpl + C3 + C5 x100	ed to NHS ≥ 60%	100%

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

CH50/mL NHS Std

NHS Std	≥ 50 AP50/mL	200 AP50/mL
Input NHS Std to yield 1 APH50	≤ 20 µL	5 μL
Un-reconstituted C3/C5-Dpl	≤ 10 AP50/mL	<1 AP50/mL
Un-reconstituted % Activity compared to NHS AP50/mL C3/C5-Dpl x100 AP50/mL NHS Std	≤ 10%	<1%

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Web Site: www.ComplementTech.com

Complement C3/C5-Depleted Human Serum, Lot #2 (Continued)

Reconstituted C3/C5-Dpl (+ 1.2 mg C3 and 75 µg C5/ml)	≥ 50 AP50/mL	222 AP50/mL
Input C3/C5-Dpl + C3 & C5 to yield 1 AP50	≤ 20 µL	4.5 μL
Reconstituted % Activity with C3 & C5 compare <u>AP50/mL C3/C4-Dpl + C3 + C5</u> x100 AP50/mL NHS Std	d to NHS ≥ 60%	111%

IMMUNOCHEMICAL ANALYSIS

Ouchterlony	No C3 or C5 antigen detectable	Conforms
	using various dilutions of anti-Human	
	C3 and anti-Human C5 antiserum	

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.

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

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^{*} One CH50 unit is defined as the input of C3/C5-Dpl, with or without reconstitution with C3 & 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 1.5 mL GVB⁺⁺.

^{**} One unit of alternative pathway activity (APH50) is defined as the input of C3/C5-Dpl, with or without reconstitution with C3 & C5 or NHS Complement Std yielding 50% lysis of 1.5×10^7 rabbit erythrocytes (Er) when incubated for 30 minutes at 37°C in a total reaction volume of 100 μ L GVB° containing a final Mg-EGTA concentration of 5 mM.