

# CERTIFICATE OF ANALYSIS

**Complement Technology, Inc.**  
4801 Troup Hwy, Suite 701  
Tyler, Texas 75703, USA

**Product: C1 Protein**  
**Catalog # A098 Lot #**  
**Exp. Date:**

**Description:** Purified Human Complement Protein C1

<u>Specifications</u>	<u>Limits</u>	<u>Results</u>
PROTEIN CONCENTRATION	Total Protein: $\geq 0.2$ mg/mL using an extinction coefficient of $E^{1\%}_{280nm} = 8.9$	0.49 mg/mL
	C1 protein: $\geq 0.20$ mg/ml based on functional activity measurements	0.33 mg/ml
FILL VOLUME	1.0 – 1.2 mL	1.05 mL
BUFFER	50 mM NaAcetate, 50 mM EACA, 10 mM Benzamidine 10mM EDTA, 300 mM NaCl, 40% Glycerol, pH 5.5	Conforms
PRESERVATIVE	None, filtered through a 0.22 $\mu$ m pore size filter.	None, filtered through a 0.22 $\mu$ m pore size filter.
PURITY	$\geq 70\%$	$\geq 95\%$ by SDS
FUNCTIONAL ACTIVITY*	Titer $>2.5 \times 10^5$ C1H50 Units/mg	474,000 Units/mg
	$\geq 70\%$ of C1 activity in NHS on a mg/mg basis	100%
IMMUNOCHEMISTRY	$\leq$ trace amounts of IgG, IgA, IgM, albumin, C2,C3,C4,and C5.	Conforms
HUMAN SERUM/PLASMA STARTING MATERIAL		
HBsAg	Negative	Negative
ANTI-HIV 1/2	Negative	Negative
ANTI-HCV	Negative	Negative
HCV, HIV, HBV by NAT	Negative	Negative
West Nile Virus (WNV) by NAT	Negative	Negative
ANTI-SYPHILIS	Negative	Negative
ANTI-HBc	Negative	Negative
HTLV I/II	Negative	Negative

\*One C1H50 unit is defined as the amount of C1 required to yield 50% lysis of  $3 \times 10^7$  EA when incubated in the presence of 2 $\mu$ g C4 and 0.25  $\mu$ g C2 at 30° C for 12 minutes in a total volume of 500  $\mu$ l SGVB++. The reaction is developed by the addition of 1 ml of guinea pig serum diluted 1:50 in SGVB, 40 mM EDTA, pH 7.2, for 30 minutes at 30°C.

**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**

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Signature of Analyst

\_\_\_\_\_  
Date of Analysis