

CERTIFICATE OF ANALYSIS

Complement Technology, Inc.

4801 Troup Hwy, Suite 701

Tyler, Texas 75703, USA

Product: **C4**

Catalog # **A105c** Lot #

Exp. Date:

Description: Purified Human Complement Protein C4

<u>Specifications</u>	<u>Limits</u>	<u>Results</u>
PROTEIN CONCENTRATION	4.0 – 4.2 mg/mL. C4 has an extinction coefficient of $E^{1\%}_{280\text{nm}} = 10.3$	4.0 mg/ml
FILL VOLUME	0.250 - 0.275 mL	0.275 mL
BUFFER	Phosphate buffered saline, pH 7.2	Phosphate buffered saline, pH 7.2
PRESERVATIVE	None, filtered through a 0.22 μm pore size filter.	None, filtered through a 0.22 μm pore size filter.
PURITY	> 90%	> 95% by SDS-PAGE
FUNCTIONAL ACTIVITY	Titer with C4 deficient g.p. serum > 300,000 C4H50/mg $\leq 2.5\text{ng}$ C4 to yield 1 C4H50	2,000,000 U/mg 0.5 ng
	Titer with Human C4 depleted serum > 160,000 C4H50/mg $\leq 10\text{ng}$ C4 to yield 1 C4H50	321,000 U/mg 3.1 ng
	$\geq 40\%$ of C4 activity in NHS on a mg/mg basis	94%
PRESENCE OF OTHER FUNCTIONALLY ACTIVE COMPLEMENT COMPONENTS	\leq trace amounts ($\leq 0.1\%$) of functionally active C3	Conforms
IMMUNOCHEMISTRY (DILUTION OUCHTERLONIES)	\leq trace amounts of IgG, IgA, IgM, albumin, C1s, C3, Factor B, Factor H, C4BP, or ceruloplasmin	Conforms
HUMAN SERUM/PLASMA STARTING MATERIAL		
HBsAg	Negative	Negative
Anti-HBc	Negative	Negative
ANTI-HIV I 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 I and II	Negative	Negative

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

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

Web Site: www.ComplementTech.com