

# CERTIFICATE OF ANALYSIS

## Complement Technology, Inc.

4801 Troup Hwy, Suite 701

Tyler, Texas 75703, USA

Product: **C1r Proenzyme**

Catalog # **A101** Lot #

Exp. Date:

Description: Purified Human Complement Protein C1r Proenzyme

| <u>Specifications</u>   | <u>Limits</u>  | <u>Results</u>  |
|---|--|---|
| PROTEIN CONCENTRATION   | $\geq 0.40$ mg/mL. C1r has an extinction coefficient of $E^{1\%}_{280\text{nm}} = 11.5$            | 0.56 mg/ml  |
| FILL VOLUME   | 0.200 - 0.220 mL   | 0.210 mL  |
| BUFFER  | 10 mM Imidazole, 400 mM NaCl, 1 mM $\text{CaCl}_2$ , pH 6.0  | 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.   |
| PURITY  | $\geq 90\%$<br><br>Reduced and Non-reduced SDS-Page C1r is a single chain Protein (92,000 daltons) | $\geq 95\%$ by SDS-PAGE<br><br>$\geq 90\%$ is a single chain 92,000 dalton band. Approx. $\leq 10\%$ of C1r is the activated two-chain form (57,000 & 35,000 daltons) |
| FUNCTIONAL ACTIVITY<br>C1rH50 Units/mg pure C1r proenzyme at the recommended input of C1r-Dpl | $\geq 30,000$ Units/mg   | 456,000 Units/mg  |
|   | $\geq 70\%$ of C1r activity in NHS on a mg/mg basis  | 100%  |
| IMMUNOCHEMISTRY<br>(DILUTION OUCHTERLONIES)   | $\leq$ trace amounts of IgG, IgA, IgM, albumin, C1s, C4BP, or C1-INH                               | Conforms  |
|   | Strong precipitin line forms with anti-C1r antiserum   | Conforms  |
| HUMAN SERUM/PLASMA - STARTING MATERIAL  |  |   |
| HBsAg   | Negative   | Negative  |
| Anti-HIV 1 & 2 Plus O   | 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  |
| Zika RNA by NAT   | Negative   | Negative  |
| HTLV I & II   | Negative   | Negative  |
| Anti-HBc  | 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.**

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Signature of Analyst

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Date of Analysis

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