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## Certificate of Analysis

**Catalog #:** HCII

**Lot:** SAMPLE SAMPLE

**Description:** Heparin Cofactor II

**Concentration:** 0.54 mg/ml

**Aliquots:** 1 x 0.10 mg

**Volume/aliquot:** 0.185 ml

**Activity:** N/A

**Total protein:** 0.10 mg

**Buffer:** 20 mM Tris-HCl/ 0.15 M NaCl/ pH 7.4

**Storage:** < -60 °C

**Expiration Date:** Sample

**PO:** N/A

Heparin Cofactor II is a plasma glycoprotein that is a member of the SERPIN family of proteinase inhibitors. HCII is a relatively specific inhibitor of thrombin and its activity is increased approximately 1000 fold in the presence of heparin. Its activity is also increased in the presence of dermatan sulphate. HCII is a single chain molecule with a mass of 65,600 daltons. Protein is >95% pure by SDS-PAGE. Inhibition of thrombin results in a covalent complex of 102,600 daltons.

HCII levels can be measured in plasma by activity in the presence of dermatan sulphate, or immunologically by Rocket-EID or by ELISA.

The protein is greater than 75% active as measured by the inhibition of thrombin in the presence of heparin and migrates as a single band on SDS-PAGE under reducing conditions. The above protein was purified from Human plasma that was tested and found negative by FDA accepted methods for Anti-HIV1/2, Anti-HTLV I & II, HBsAg, Anti-HCV, Syphilis, HBC Ab, HIV-1 p24 Ag or HIV-1 RNA, HCV RNA and HBV RNA. Donors are screened for CJD (Creutzfeldt-Jakob Disease).

Thank You,  
**Quality Assurance**

Sample