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Certificate of Analysis and Data Sheet

Recombinant Hepatitis C Virus NS3 Genotype-4 (1356-1459)

Catalog No.	**Source:**
228-10655	*E.coli*

Introduction
HCV is a small 50nm, enveloped, single-stranded, positive sense RNA virus in the family Flaviviridae. HCV has a high rate of replication with approximately one trillion particles produced each day in an infected individual. Due to lack of proofreading by the HCV RNA polymerase, the HCV has an exceptionally high mutation rate, a factor that may help it elude the host's immune response. Hepatitis C virus is classified into six genotypes (1-6) with several subtypes within each genotype. The preponderance and distribution of HCV genotypes varies globally. Genotype is clinically important in determining potential response to interferon-based therapy and the required duration of such therapy. Genotypes 1 and 4 are less responsive to interferon-based treatment than are the other genotypes (2, 3, 5 and 6).

Description
The E.coli derived recombinant protein contains the HCV NS3 immunodominant regions, amino acids 1356-1459.

Purification Method
HCV NS3 Genotype-4c protein was purified by proprietary chromatographic technique.

Purity
HCV NS3 Genotype-4c protein is >95% pure as determined by 10% PAGE (coomassie staining).

Formulation
1.5M urea, 25mM Tris-HCl pH-8, 0.2% Triton-X & 50% Glycerol.

Storage
HCV NS3 Genotype-4c protein is shipped at ambient temperature. Upon arrival, Store at -20°C.

Stability
Five years frozen. One month in solution at room temperature.

Specificity
Immunoreactive with sera of HCV-infected individuals.

Applications
HCV NS3 Genotype-4c antigen in ELISA and Western blots, excellent antigen for detection of HCV with minimal specificity problems.