Product Data Sheet

Product Name:	HCV LFA
Cat. No.:	GP25312
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Formulation	Both Conjugate protein (Core-NS3-NS4-NS5) and Capture protein (Core-NS3-NS4-NS5 + HCV core are in PBS.		

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).

Stability

Store at 4°C if entire vial will be used within 2-4 weeks.Store, frozen at -20°C for longer periods of time.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Recombinant HCV antigen for lateral flow assay contains x2 HCV proteins. The mosaicHCV protein is composed of HCV core-NS3-NS4-NS5 which is used for colloid gold conjugate, and a protein cocktail that contains both HCV core-NS3-NS4-NS5 and a large HCV core with 169 amino acid which is used for membrane coating.

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