

# Hepatitis C Genotyping

<b>Test ID</b>	<b>1300</b> Hepatitis C Genotyping (HCVG)
<b>Clinical Utility</b>	Hepatitis C Genotyping can be used to help predict the outcome of therapy and to influence the choice of therapeutic drugs. Clinical outcome depends on the genotype of the infection, pretreatment viral load, and whether or not liver cirrhosis is present. Genotypes 1a and 1b have the poorest clinical outcomes with sustained viral response of only 46% with combination antiviral therapy. The ViraCor HCVG assay detects genotypes 1-6 and can detect dual genotype infections.
<b>Procedure</b>	Extraction of nucleic acid from plasma; reverse transcription of the target RNA to generate complementary DNA. Detection of hepatitis C genotypes 1 through 6 occurs by utilizing primers and probes specific to the different HCV genotypes with real-time PCR. <b>Note: 1300 Hepatitis C Genotyping must be ordered with 1200 Hepatitis C (HCV) Real-time RNA qPCR. HCV Genotyping is performed following confirmation of adequate viral load to obtain a genotyping result. If the HCV viral load is &lt;1,000 IU/ml, genotyping may not be successful.</b>
<b>Specimens</b>	<b>Whole Blood:</b> 7-10 ml submitted in EDTA, ACD Solution A, or PPT sterile tube. Minimum specimen requirement is 2 ml plasma. <ul style="list-style-type: none"><li>• Separate plasma from cells within 4 hours of collection by centrifuge at 1000 xg for 10-15 minutes. Do not clarify by filtration or further centrifugation.</li><li>• Ship ambient or frozen.</li></ul>
<b>Specificity</b>	<b>Detects all 6 HCV genotypes.</b> The primers and probes used in this assay will distinguish HCV genotypes 1a, 1b, 2a, 2b, 3, 4, 5, and 6.
<b>Assay Range</b>	Genotypes: 1a, 1b, 2a, 2b, 3, 4, 5, or 6
<b>Turnaround Time</b>	Next day, following quantitation result

PCR tests are performed pursuant to a license agreement with Roche Molecular Systems, Inc.

This assay was developed and the performance characteristics were determined at ViraCor Laboratories. This test is performed in a CLIA certified laboratory. FDA approval is not required for the performance of this test.

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