

# SV-40 Quantitative Real-time DNA PCR

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| <b>Test ID</b>          | <b>3000 SV-40 Real-time qPCR</b>   |
| <b>Clinical Utility</b> | SV-40 is documented to have contaminated some polio vaccine preparations between 1955 and 1963. Epidemiological studies are underway attempting to prove a causal relationship between SV-40 and certain cancers such as mesothelioma, osteosarcoma, and non-Hodgkin's lymphoma. Quantitative SV-40 DNA PCR can be used to test for the presence of SV-40 DNA in biological specimens. |
| <b>Procedure</b>        | Extraction of SV-40 viral DNA from plasma, other biological fluids, or tissues followed by amplification and detection using real-time, quantitative PCR. An internal control is added to ensure the extraction was performed correctly and the PCR reaction was not inhibited.  |
| <b>Specimens</b>        | <b>Whole Blood:</b> 3-5 ml submitted in an EDTA tube; ship ambient.<br><b>CSF:</b> 1 ml fluid frozen; submitted in a sterile, leakproof tube; ship on dry ice.<br><b>Urine:</b> 5 ml submitted in a sterile urinalysis container; ship ambient.<br><b>Other:</b> Please inquire.   |
| <b>Specificity</b>      | The primers and probes used in this assay are specific for SV-40 based on similarity search algorithms. Additionally, no cross reactivity was detected when tested against adenoviruses, BKV, CMV, EBV, HSV-1, HSV-2, HHV-6 variant A, HHV-6 variant B, HHV-7, HHV-8, JCV, Parvovirus B19, and VZV.  |
| <b>Assay Range</b>      | 500 copies/ml to $1 \times 10^{10}$ copies/ml  |
| <b>Turnaround Time</b>  | Within 24 hours of receiving specimen  |

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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