

CMV RT PCR ASSAYS

CLINICAL INFORMATION

Cytomegalovirus (CMV) is a DNA virus, member of the Herpesviridae family. This is an ubiquitous virus with a seroprevalence around 40% to 60% in industrialized countries, and reaching 90% to 100% in developing countries. Primary infection, usually asymptomatic, occurs during childhood. After primo-infection, CMV enters in latency in white blood cells. In transplant patients, CMV disease remains one of the most common complications, with significant morbidity and mortality. CMV can cause non-specific febrile syndrome (fever, leukopenia and a typical lymphocytosis), organ-specific diseases (colitis, pneumonia, retinitis, meningitis, hepatitis), indirect effects (acute rejection, chronic graft dysfunction) or disseminated infections. Although new infections can occur, the majority of cases in transplant patients are due to reactivation. Real-time quantitative polymerase chain reaction (PCR) is now the standard of care for diagnosis and monitoring of CMV infection and disease.

KEY FEATURES

CMV PCR KIT

- Ready-to-use reagents
- Complete quantitative kit
- Validated on **>2000 NABL** samples.
- Validated with all major extraction and amplification platforms
- Designed for low to high throughput analysis
- Advanced MGB[®] Stabilizers
- Ultra-High Specificity & Sensitivity. Detection Limit @ 100 IU/ml.
- Specially Formulated PCR Enhancers[®]

TECHNICAL INFORMATION

PRODUCT CODE	STRUMBCM50
TEST/PARAMETERS	HUMAN CYTOMEGALO VIRUS DNA DETECTION TEST
Principle of the test	Taqman 5'Nuclease Assay [Pathogen detection]
Type	Real Time detection and Quantitative test
Technology	Real Time PCR
Gene target	CMV DNA Polymerase
Range Detection	200 IU/ML to 7 x 10 ⁽⁷⁾ IU/ML
Specimen	Plasma, Urine and other body fluids
MGB Probe	Yes (n=2) Includes Inhibition control probe
Detection limit	100 IU/ML
Controls included	(1) Quantitation standards (n=4) / Positive Control (2) Negative control (3) Inhibition Control
Reporting unit	Copies/ML; IU/ML
Number of tests	50
Storage conditions	-20 Degree C
Validation platform	Rotorgene (Qiagen) Applied Biosystems Roche
Status	Research Use Only
NABL Samples Validated	Yes

STRUMED SOLUTIONS PRIVATE LIMITED

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