

TRUPCR® HSV1/2 Detection Kit

NEED

Infection with herpes simplex virus (HSV), known as herpes, is common globally. HSV type 1 (HSV-1) is typically transmitted by oral-to-oral contact and causes infection in or around the mouth (oral herpes), but it can also cause genital herpes. HSV-2 is mainly sexually transmitted and causes genital herpes. An estimated 3.7 billion people under age 50 (67%) have HSV-1 infection globally. Most HSV-1 infections are acquired during childhood.

An estimated 491 million people aged 15–49 (13%) worldwide have HSV-2 infection. Infection with HSV-2 increases the risk of acquiring and transmitting HIV infection. HSV-2 infects women almost twice as often as men because sexual transmission is more efficient from men to women. Prevalence increases with age, though the highest number of new infections are in adolescents.

In immunocompromised people, including those with advanced HIV infection, herpes can have more severe symptoms and more frequent recurrences. Rare complications of HSV-2 include meningoencephalitis (brain infection) and disseminated infection. HSV-1 infection can also lead to more severe complications such as encephalitis (brain infection) or keratitis (eye infection).

Neonatal herpes can occur when an infant is exposed to HSV during delivery. Neonatal herpes is rare, occurring in an estimated 10 out of every 100,000 births globally. However, it is a serious condition that can lead to lasting neurologic disability or death. The risk for neonatal herpes is greatest when a mother acquires HSV for the first time in late pregnancy.

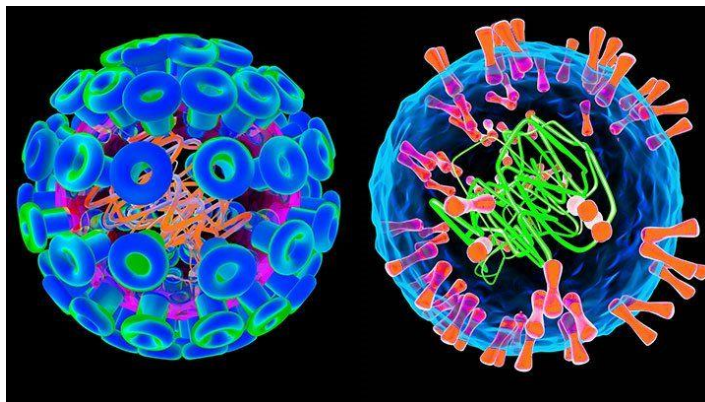


Image Source: <https://images.everydayhealth.com/images/stds/both-hsv-1-and-hsv-2-can-cause-genital-herpes-722x406.jpg>

SOLUTION BY TRUPCR®

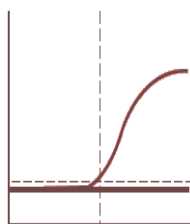
TRUPCR® HSV 1/2 Detection Kit is in vitro nucleic acid amplification assay for the qualitative single tube detection of Herpes Simplex Virus-1 (HSV-1) and Herpes Simplex Virus-2 (HSV-2) from clinical samples. Endogenous control gene is included in the kit to monitor the quality of extracted DNA from clinical samples. The kit is based on amplification of conserved region of the viral genome. In this kit multiplex reactions are running in parallel in a single tube.

TARGET PATHOGENS

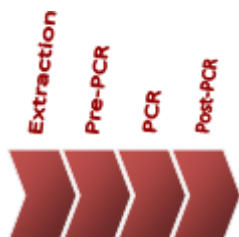
Primer Probe Mix

FAM	HEX	Cy5
Herpes Simplex virus 1	Herpes Simplex virus 2	Endogenous IC

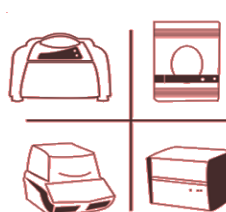
KEY FEATURES



Endogenous Internal Control incorporated within the kit to ensure reliable results



Complete workflow solution available from Extraction of sample to Post-PCR analysis



Platform agnostic as compatible with various platforms



Rapid and reliable results within 90-100 minutes after PCR Start

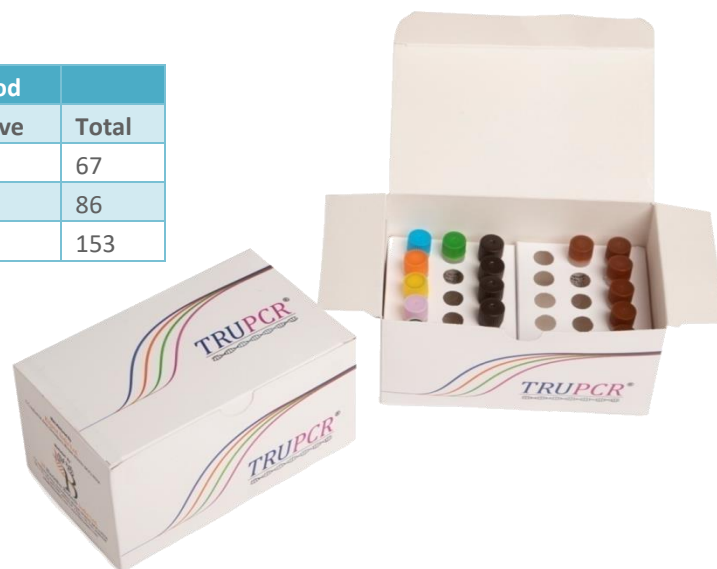
TECHNICAL SPECIFICATIONS

- Sample Type – Extracted Nucleic acid from urine samples, vaginal swabs, genital swabs, rectal swab, male urethral swabs, cerebral spinal fluid(CSF), ocular fluid, EDTA blood (Plasma) of human origin
- Clinical Validation – Validated on more than 300 clinical samples
- Target Regions – Conserved regions of the genome of each pathogen
- Reaction Volume – 25 µl in each tube
- LOD Data: 0.5 copies / µl
- Compatible Instruments – Applied Biosystems™ 7500 series, Applied Biosystems™ StepOne series, Applied Biosystems™ QuantStudio® series, Rotor-Gene Q, Bio-Rad CFX96, AriaMx Real-Time PCR, Roche - LightCycler® 480 –II, Line gene K real time PCR

CLINICAL DATA

		Reference Method		
		Positive	Negative	Total
TRUPCR Method	Positive	66	1	67
	Negative	2	84	86
Total		68	85	153

Parameters	Estimate
Sensitivity	97.06%
Specificity	98.82%
Positive Predictive Value	98.51%
Negative Predictive Value	97.67%



ORDERING INFORMATION

Cat. No.	Description	Size
3B1217	TRUPCR® HSV 1/2 Detection Kit	48 Reactions
3B1218	TRUPCR® HSV 1/2 Detection Kit	96 Reactions