

Herpes Simplex Virus Type 1 and 2 Nucleic Acid Typing Detection Kit (Fluorescence PCR)

Product Introduction

Herpes simplex virus belongs to the α subfamily of human herpesviridae. According to the difference of G protein, it can be divided into two serotypes: Herpes Simplex Virus Type 1(HSV1) and Herpes Simplex Virus Type 2(HSV2). The nucleic acid sequences of the two types have high homology, but the infection way and clinical manifestations are different. The recurrence rate of genital herpes caused by HSV2 infection is much higher than that caused by HSV1, so it has important clinical significance for the diagnosis and detection of HSV.

The primer probe of this kit is designed for the specific conserved sequences of HSV1 and HSV2, and can accurately detect the two viruses in the samples. Human internal reference is added to the kit to monitor the entire process of specimen collection, transportation, nucleic acid extraction and PCR amplification. UDG enzyme anti-contamination measures were added to avoid false positive results caused by product contamination.

Product Features



• Strong specificity

No cross-reaction between HSV1 and HSV2. And no-cross reaction with similar viruses such as group B streptococcus, HPV16, HPV18, human cytomegalovirus, Epstein-Barr virus adenovirus and so on.

• Strong anti-interference ability

Blood (10%), mucin (0.2mg/mL), cervical mucus (15%), vaginal lubricant (3%), gynecological cleanser (5%), azithromycin (0.4mg/L), levofloxacin (5μg/mL) have no interference on the test results of the kit.

• Simple operation

The two viruses can be detected and identified time in one reaction, and the detection can be completed within 32min.

Product Name	Parameters
Sample Type	Male urethral swab, female cervical swab
Sensitivity	200 copies/mL
Accuracy	CV ≤ 5%
Detection Ability	HSV1 and HSV2 viruses can be detected and identified simultaneously in one reaction tube
Support Instrument	Fluorescence quantitative PCR instrument
Detection Time	32min
Storage Condition	-20 ± 5 °C avoid light

Application case

Case 1 HSV1 and HSV2 samples were respectively diluted by a gradient of 10 times. Nucleic acids were extracted using Bioer nucleic acid purification reagent and detected using this kit to test their amplification curves and standard curves.

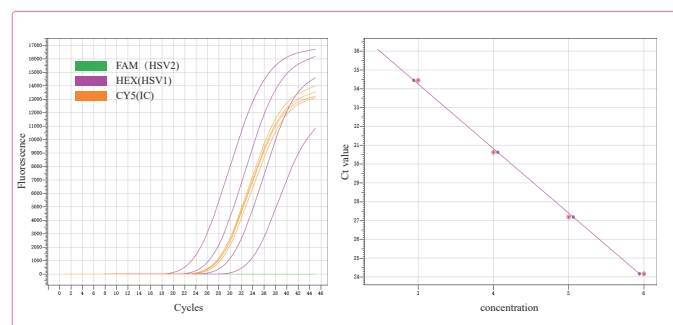


Figure 1 Amplification curve and standard curve of HSV1 samples

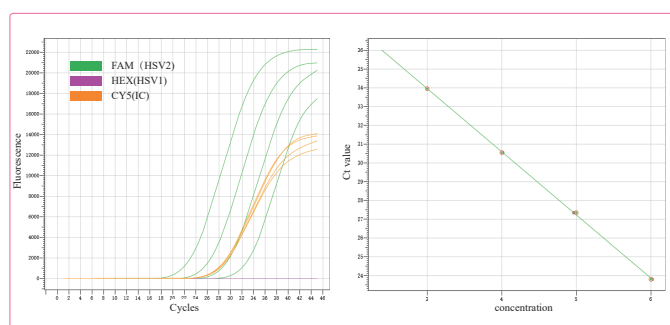


Figure 2 Amplification curve and standard curve of HSV2 samples

※**Conclusion**: The results showed that the correlation coefficients of HSV1 and HSV2 were above 0.999, and the linear relationship was good.

Case 2 Negative samples were used to dilute HSV1 and HSV2 samples to medium high concentration levels and low concentration levels, respectively. Nucleic acids were extracted using Bioer nucleic acid purification reagent and tested using this kit. 10 tests were repeated for each sample.

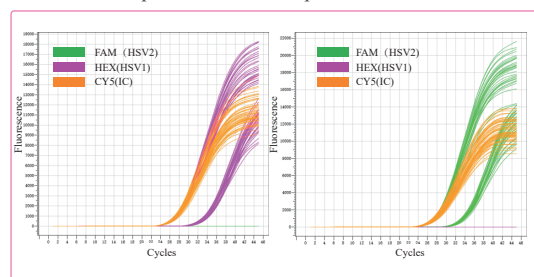


Figure 3 Amplification curve of precision test

※**Conclusion**: The results showed that the precision variation coefficients of the three batches of reagents were all less than 5%, indicating that the reagents had good precision.

Case 3 Enterprise positive references p1-P8 and negative references N1-N8 were extracted with Bioer Technology's nucleic acid purification reagent, and tested with this kit to validate the accuracy of the kit.

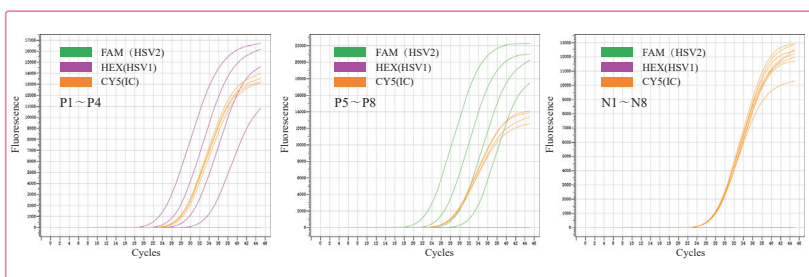


Figure 4 The results of enterprise references tested by this kit

※**Conclusion**: The results showed that the coincidence rate of this kit to positive reference and negative reference was 100%, indicating that this kit has excellent performance.

Ordering Information

Product Name	Cat#	Package
Herpes Simplex Virus Type 1 and 2 Nucleic Acid Typing Detection Kit (Fluorescence PCR)	BSJ08S1	24T
	BSJ08M1	48T



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