

## **HSV 1, 2 DNA Real-Time PCR**

### **CERNER ORDERABLE**

HSV 1,2 DNA Real-Time PCR, HSV12RT 3105

### **CPT CODE**

87529

### **CLINICAL UTILITY**

Herpes simplex virus (HSV) types 1 and 2 are capable of producing a broad range of infections associated with skin, mucous membranes, eye, central nervous system, and occasionally internal organs in both normal and immunocompromised patients. They induce a lifelong latent infection and are capable of inducing recurrent infections. The course of infection and symptoms produced are dependent on the site of infection, age, and immune status of the host and serotype of the virus.

HSV infections of the central nervous system (CNS) affect all ages of patients and can occur any time during the year. These include neonatal HSV infections, HSV encephalitis, and recurrent aseptic meningitis (Mollaret's meningitis). Qualitative PCR is particularly useful due to temperature liability for culture, which HSV is rarely recovered from CSF through culture, and time delay between collection and culture for HSV could result in false negative results<sup>1</sup>.

### **METHODOLOGY**

Qualitative PCR

### **SPECIMENS**

CSF

Swabs in viral transport media

Ocular fluid

Plasma: Collect in 5 mL pearl or lavender top tube. Spin and separate plasma within 6 hours of collection. Aliquot plasma and refrigerate.

### **SPECIMEN STABILITY**

Refrigerated

### **SHIPPING**

Ship on ice packs or if frozen on dry ice

### **CAUSES FOR REJECTION**

Plasma not separated within 6 hours of collection. No heparin or clotted samples.

### **SPECIFICITY**

Validated clinical specificity is 97.9%. Analyte specific reagents differentiate HSV 1 and HSV 2.

### **ASSAY RANGE**

Qualitative results (HSV 1 Detected/Not detected and HSV 2 Detected/Not detected).

### **TURNAROUND TIME**

1-3 days

1. Reference information can be found in the Indiana University Health Molecular Assay Procedures.