

Herpes Simplex Virus Serological Testing

Effective Date: August 1, 2017

Commencing August 1, 2017, the Special Testing section of Beaumont Laboratory (Royal Oak) will perform Herpes Simplex Virus (HSV) Type 1 and Type 2 IgG antibody testing using a chemiluminescent immunoassay method on the DiaSorin Liaison XL platform. The vendor performance characteristics of the assays were independently verified by the Laboratory, and deemed comparable to the previous method used (ELISA, Focus Diagnostics).

Specimen Collection Requirement: One gold-top Serum Separator Tube (SST)

About HSV Type-specific Serological Testing:

The type-specific immunoassays employed detects IgG antibody to glycoprotein G1 (from HSV-1) and glycoprotein G2 (from HSV-2). These antigenic proteins exhibit very limited homology with each other, and are therefore reliable in discriminating between past exposure to HSV-1 and HSV-2.

Reference Index Values & Interpretation:

➤ Same for HSV-1 IgG and HSV-2 IgG (2 test results per order)

<u>Index Value</u>	<u>Result</u>	<u>Interpretation</u>
≤ 0.90	Negative	No evidence of past exposure.
0.91- 1.09	Equivocal	Cannot determine IgG status. Recommend follow-up testing in 10-14 days if clinically indicated.
≥ 1.10	Positive	Consistent with a past infection.

Special Considerations:

1. If an acute/recent infection is suspected in a patient that tests negative for HSV-1 IgG and HSV-2 IgG, re-assess serological status in 3-4 weeks.
2. A positive HSV-1 IgG or HSV-2 IgG test result does not provide information regarding timing of acquisition of a herpes infection.

If you have questions, please contact Client Services (1-800-551-0488, option 5).

For additional information, access the Laboratory Test Directory at:

<http://beaumontlaboratory.com/test-lab-directory>

Date submitted: July 17, 2017

Submitted By: Gabriel Maine, PhD - Technical Director, Royal Oak Special Testing Laboratory
Elizabeth Sykes, MD - Medical Director, Royal Oak Special Testing Laboratory

Beaumont Laboratory
Customer Service
1-800-551-0488