



ADVIA Centaur Herpes-1 IgG and Herpes-2 IgG Assays

Automate Type-Specific Herpes Testing

Herpes simplex virus (HSV) causes acute and recurrent infections, which are often subclinical,¹ however, it may cause generalized and fatal infection in newborns and immunocompromised people. Two types of HSV are serologically distinguishable: herpes simplex virus type 1 (HSV-1) and herpes simplex virus type 2 (HSV-2).²

Neonatal infection occurs during delivery, and may result in neurological damage and death. The greatest risk of newborn disease comes with late-pregnancy acquisition of HSV genital infection in a previously unexposed woman.³ Detection of women at risk of infection and prevention of viral shedding near time of birth can contribute to improve outcomes.⁴

The distinction between HSV-1 and HSV-2 infection is important to guide duration and dosage of antiviral therapy, evaluate efficacy of HSV vaccine candidates, and help clinician counseling of couples where one has genital herpes.⁵

Type-specific serological diagnosis has been technically challenging. The use of the recombinant HSV-1 glycoprotein G (gG1) and recombinant HSV-2 glycoprotein G (gG2) enables detection of HSV-1 or HSV-2 type-specific antibodies.^{2, 6, 7} Serological testing can provide an accurate diagnosis and information in managing at-risk populations, such as pregnant women.

Importance of Herpes-1 IgG and Herpes-2 IgG diagnosis:

- HSV may cause serious infection in newborns and immunocompromised individuals.¹
- Detecting women at risk of HSV infection during pregnancy and near birth may improve outcomes.⁵
- Type-specific diagnosis can guide duration and dosage of antiviral therapy.⁵

ADVIA Centaur Herpes-1 IgG and Herpes-2 IgG* assay benefits:

- Detect HSV-1 or HSV-2 specific IgG antibodies with recombinant type-specific glycoproteins
- Consolidate TORCH and routine assay testing onto one platform to improve lab productivity
- Automate manual TORCH testing to reduce hands-on labor and increase efficiency

ADVIA Centaur CP/XP Herpes-1 IgG and Herpes-2 IgG Assays specifications

ADVIA Centaur® Immunoassay Systems offer easy consolidation and automation of routine, specialty, and STAT testing. Make your Lab efficient by consolidating Herpes-1 IgG and Herpes-2 IgG testing onto the ADVIA Centaur system.

Assay	Sample Type	Sample Volume	Assay Range	Cutoff	Calibration Interval	Onboard Stability	Time to First Result
HSV1 HSV2	Human serum, plasma (EDTA and lithium heparin)	20 µL	HSV1: 0.01-20.00 HSV2: 0.01-10.00	1.00 Index Value	28 days	60 days	XP/XPT: 57.25 min CP: 53 min

Additional Specifications		Ordering Information	
Number of tests	100	SMN No.	Contents
Interpretation of Results	The system reports human IgG anti-HSV1 and anti-HSV2 results in Index Value and as reactive or nonreactive. • Reactive ≥ 1.00 Index • Non reactive < 1.00 Index NOTE: There is no equivocal zone	HSV1: 10720846 HSV2: 10720849	<ul style="list-style-type: none"> • 1 ReadyPack primary reagent pack containing Lite Reagent, Solid Phase, and Ancillary Well Reagent • 1 vial low calibrator • 1 vial high calibrator • Master Curve card • Calibrator Assigned Value card and barcode labels
Assay Format	Qualitative, 2-step sandwich immunoassay using indirect chemiluminometric technology	01137199	ADVIA Centaur Wash 12 x 1500 mL/pack
Relative Sensitivity	HSV1: 97.3%; HSV2: 97.6.%	03773025	ADVIA Centaur Wash 12 x 2500 mL/pack
Relative Specificity	HSV1: 96.0%; HSV2: 97.4%	HSV1: 10720847 HSV2: 10720850	ADVIA Centaur Quality Control • 1 x 7.0 mL negative control • 1 x 7.0 mL positive control
Resolved Sensitivity	HSV1: 99.1%; HSV2: 100%		
Resolved Specificity	HSV1: 97.7%; HSV2: 100%		

System availability: ADVIA Centaur CP/XP/XPT Immunoassay Systems

References:

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*Not available for sale in the U.S.

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