**Bio-Rad Laboratories** Improving lives with every test.



# Herpes Simplex Virus 1/2

## Herpes 1/2 DFA and Herpes 1/2 IgG EIA

Infections of Herpes Simplex Virus (HSV) most often cause blister-like sores or blemishes on the skin that eventually crust over in scabs before healing. HSV-Type 1 commonly causes oral herpes, and HSV-Type 2 typically affects the genital region. Both types, however, can cause either infection.

Herpes Simplex Virus can also cause Herpes simplex encephalitis, a rare but potentially fatal infection caused by HSV-Type 1. Ophthalmic infection with HSV causes herpes keratitis, one of the most common viral causes of blindness.

#### Pathfinder<sup>®</sup> HSV 1 and 2 DFA

The Pathfinder<sup>®</sup> HSV 1 and 2 kit provides direct antigen detection and differentiation of Herpes Simplex Virus (HSV) Types 1 and 2. The monoclonal antibody-based test can be used to directly stain clinical specimens or tissue culture cells.

### HSV 1 and 2 IgG EIA

The HSV 1 and 2 IgG EIA kit provides qualitative and semi-quantitative detection in serum samples.



### Simple and Convenient

#### Pathfinder<sup>™</sup> Herpes 1 and 2

- 1 test, 2 results
- Direct antigen detection and differentiation of HSV types 1 and 2 by DFA using fluorescein-conjugated monoclonal antibodies
- Directly stain clinical specimens or tissue culture cells
- I.D. and typing of direct clinical specimens
- Confirmation of cell culture isolates
- Room temperature incubation
- Control slide with ± controls
- Results in one hour

#### **HSV IgG EIA**

- Microplate indirect EIA, 96-test kit
- Qualitative and semi-quantitative procedures
- Detection of IgG
- Antibodies to types 1 and 2
- 90 minute total incubation
- Room temperature incubation
- · Objective, normalized index values



### **Herpes** Testing

### Pathfinder<sup>®</sup> HSV

Pathfinder<sup>™</sup> HSV Identification in Direct Clinical Specimens Results by Investigator

	TP	FP	FN	TN	Inadequate No. (%)	Total
Pathfinder Reagents	+	+	-	-	100. (70)	
Cell Culture Method	+	-	+	-		
Investigator A	34	0	6	18	11 (16%)	69
Investigator B	21	1	6	18	3 (6%)	49
In-house	26	0	8	7	6 (13%)	47
Total	81	1	20	43	20	165
Sensitivity =	TP P + FN	-		Specifi	$city = \frac{TN}{TN + FP}$	= 98%

#### HSV Identification in Direct Clinical Specimen Results by Sex and Site of Lesion

			Sensitivity	Specificity		ve Value Negative
			TP	TN	TP	ŤN
Site of Lesion	Male	Female	TP + FN	TN + FP	TP + FP	TN + FN
Genital	69		79%	95%	97%	67%
			38/48	20/21	38/39	20/30
Genital		43	81%	100%	100%	67%
			25/31	12/12	25/25	12/18
Anal	8	3	71%	100%	100%	67%
			5/7	4/4	5/5	4/6
Other	10	11	86%	100%	100%	78%
			12/14	7/7	12/12	7/9
Unknown	1					
Total	88	57				

Note: The calculations in Table 1 and 2 are based on comparison to cell culture as the reference method.

### Ordering Information

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Bio-Rad Laboratories

### For further information, please contact the Bio-Rad office nearest you or visit our website at www.bio-rad.com.

Clinical Diagnostics Group 
 Website
 www.bio-rad.com
 U.S. 1-800-2-BIO-RAD
 Australia
 61-2-9914-2800
 Austria
 43-1-877-8901
 Belgium
 32-9-385-5511
 Brazil
 5521-2507-6191
 Canada
 1-514-334-4372
 Czech

 Republic
 420-2-41430552
 China 86-21-63052255
 Denmark 45-4452-1000
 Finland
 358-9604-22-00
 France 33-1-4735-6000
 Germany 498-31884-0
 Hong Kong 652-2789 

 3300
 India 91-124-6398112
 Israel
 972-3-9514127
 Italy 30-02-216091
 Japan 81-3-5811-6290
 Korea 82-2-3473-4460
 Latin America 305-894-5950
 Mexico 5255-5534-2552
 The

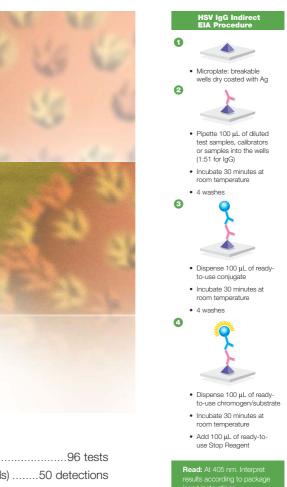
 Nettherlands
 31-318-5406666
 New Zealand 64-9-415-2280
 Norway 47-23-38-41:30
 Poland 48-22-313-99-99
 Portugal 351-21-47-7700
 Russia 7-085-721-14-00
 Singapore 65-6415 

 3188
 South Africa
 27-11-442-85-08
 Spain 34-91-590-5200
 Sweden 46-8-555-127-00
 Switzerland 41-61-717-95-55
 Thailand 662-651-8311
 United Kingdom 44-208-328-2000



HSV 1 and 2 lgG

Index VALUE	Interpretation
< 0.9	Negative for anti-HSV; presumed no previous exposure
≥ 0.9 <1.1	Equivocal
≥1.1	Positive for anti-HSV; presumed exposure to HSV type 1 or type 2 virus



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