



Simplexa™ VZV Direct Kit

Fast and Accurate VZV Testing

Direct detection of varicella-zoster virus DNA in CSF samples



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A real-time PCR assay for the direct detection of the varicella-zoster virus DNA polymerase gene from only 50µL of CSF.

VZV causes a wide spectrum of clinical manifestations

Varicella-zoster virus infection causes two clinically distinct forms of disease, depending on whether an individual is experiencing a primary (chickenpox) or secondary infection (shingles)¹. Varicella-zoster virus is highly contagious, spread by exposure to an individual shedding virus from either a varicella or herpes zoster infection. The virus can be spread from person to person by direct contact, inhalation of aerosols from vesicular fluid of skin lesions of acute varicella or zoster and possibly through infected respiratory secretions that also may be aerosolized².

Common complications of VZV infection are bacterial infections of the skin and soft tissue in children and pneumonia in adults. Severe complications include encephalitis, pneumonia (either direct viral pneumonia or secondary bacterial pneumonia), bronchitis (either viral bronchitis or secondary bacterial bronchitis), visceral dissemination (VZV infection of internal organs) and postherpetic neuralgia in immunocompromised individuals. Varicella-zoster virus can also complicate pregnancy; newborns of infected mothers have a small risk of developing congenital varicella syndrome or neonatal varicella².

Moreover VZV is now recognized as one of the leading causes of adult encephalitis and in several encephalitis studies, VZV was the second most common etiology identified, second only to HSV³. It is estimated that greater than 90 percent of the population will acquire the disease by the age of 15 and each of these persons is at risk for developing encephalitis caused by VZV⁴.

Rapid and easy VZV molecular testing

- The smallest sample volume:
 Only requires 50 µL of precious CSF sample.
- Sample-to-answer workflow with timely results:
 CLIA moderate complexity providing results in about an hour - No DNA extraction required.
- High performance:
 100% Positive Percent Agreement and greater than 98% Negative Percent Agreement.







Streamlined workflow



Simple and easy workflow enabling the assay to be run on any shift and bypass conventional DNA extraction procedures.

Proven performance that you can count on

The Simplexa™ VZV Direct assay demonstrated high performance with excellent clinical agreement against PCR/bi-directional sequencing on CSF Samples.

Simplexa *** vzv Direct Clinical Agreement				
SAMPLE TYPE	POSITIVE % AGREEMENT	NEGATIVE % AGREEMENT		
CSF	100.0% (58/58) 95% Cl: 93.8% to 100.0%	98.4% (120/122) ^a 95% Cl: 94.2% to 99.5%		

^a The two faslse positive samples were contrived positive samples which were spiked using the Ellen strain at 30 copies/reaction (2X LoD).



Your solution for VZV testing



Ordering information – Simplexa™ VZV Direct

CATALOG NUMBER	DESCRIPTION	REACTIONS/KIT
MOL3650	Simplexa™ VZV Direct Kit*	24
MOL3660	Simplexa™ VZV Positive Control Pack	10

^{*}To be used with Direct Amplification Discs (3 discs, MOL1455).

Products for HSV testing



Ordering information – Simplexa™ HSV 1 & 2 Direct

	CATALOG NUMBER	DESCRIPTION	REACTIONS/KIT
	MOL2150	Simplexa™ HSV 1 & 2 Direct Kit*	24
•	MOL2160	Simplexa™ HSV 1 & 2 Positive Control Pack	10

^{*}To be used with Direct Amplification Discs (3 discs, MOL1455).





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Product availability subject to required regulatory approvals.