Lab Dept: Microbiology/Virology

Test Name: VARICELLA ZOSTER (VZV) PCR, MISCELLANEOUS SITES

General Information

Lab Order Codes:	VZVC
Synonyms:	VZV PCR, Miscellaneous Sites; VZV Molecular Detection PCR
CPT Codes:	87798 – Infectious agent detection by nucleic acid, not otherwise specified, amplified probe technique
Test Includes:	Varicella zoster reported as negative or positive. Applies to the following specimen types: body fluid; swab; genital swab; respiratory; tissue
Logistics	
Test Indications:	This test offers rapid (qualitative) detection of varicella-zoster virus DNA in clinical specimens for laboratory diagnosis of disease due to this virus.
	Varicella-zoster virus (VZV) causes both varicella (chickenpox) and herpes zoster (shingles). VZV produces a generalized vesicular rash on the dermis (chickenpox) in normal children, usually before the age of 10 years. After primary infection with VZV, the virus persists in latent form and may emerge (usually in adults age 50 years and older) clinically to cause a unilateral vesicular eruption, generally in a dermatomal distribution (shingles).
	This test should not be used to screen asymptomatic patients.
Lab Testing Sections:	Serology - Sendouts
Referred to:	Mayo Clinic Laboratories (MML Test: VZVPV)
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	1 - 4 days, performed Monday - Saturday
Special Instructions:	Specimen must be collected under sterile conditions.

Specimen

Specimen Type:	Body Fluid (spinal, pleural, peritoneal, ascites, pericardial, amniotic, or ocular); Swab (dermal, eye, nasal, or throat); Genital Swab (cervix, vagina, urethra, anal/rectal, or other genital sources); Respiratory (bronchial washing, bronchoalveolar lavage, nasopharyngeal aspirate or washing, sputum, or tracheal aspirate); Tissue (brain, colon, kidney, liver, lung, etc.)
Container:	Body Fluid: Sterile container Swab: Multimicrobe media (M4-RT, M4, or M5) and ESwabs Genital Swab: Multimicrobe media (M4-RT, M4, or M5) and ESwabs Respiratory: Sterile container Tissue: Multimicrobe media (M4-RT, M4, or M5) preferred or sterile container with 1 to 2 mL of sterile saline.
Draw Volume:	CSF/Ocular fluid: 0.5 mL (minimum: 0.3 mL)
	Other Body Fluid: 0.5 mL (minimum: 0.5 mL)
	Respiratory Specimen: 1.5 mL (minimum: 1 mL)
	Swab: Entire collection
	Tissue: Entire collection (2x2-mm biopsy)
Collection:	Routine collection specific to specimen type
Special Processing:	Lab Staff: Do not centrifuge. Send specimen refrigerated in a screw-capped sterile vial or other collection container specified above. Maintain sterility and forward promptly.
	Specimen stable refrigerated (preferred) or frozen for 7 days.
Patient Preparation:	Specimen stable refrigerated (preferred) or frozen for 7 days. None
Patient Preparation: Sample Rejection:	
	None Room temperature specimens; mislabeled or unlabeled specimens; calcium alginate-tipped swab, wood swab, or transport swab containing gel;
Sample Rejection:	None Room temperature specimens; mislabeled or unlabeled specimens; calcium alginate-tipped swab, wood swab, or transport swab containing gel;

Limitations:	A negative result does not exclude the possibility of varicella-zoster virus (VZV) infection.
	The reference range is typically "negative" for this assay. This assay is only to be used for patients with a clinical history and symptoms consistent with VZV infection and must be interpreted in the context of the clinical picture.
	This test should not used to screen asymptomatic patients.
Methodology:	Real-Time Polymerase Chain Reaction (PCR)/ DNA Probe Hybridization
References:	Mayo Clinic Laboratories November 2023
Updates:	 3/6/2013: Title change and expansion to other specimen types, previously only spinal fluid. 1/26/2018: Expanded list of acceptable fluid types 10/31/2019: Updated dermal/eye/genital swabs to be sent in VTM on a temporary basis for specimen comparison saves. 12/20/2022: Testing transitions to a new performing laboratory within Mayo Clinic to streamline processes of molecular microbiology. 11/13/2023: Updated minimum volumes, added specimen stability.