

Human papillomaviruses 6 and 11 (HPV-6 & HPV-11) Qualitative Real-time PCR



Human papillomaviruses (HPV) are endemic with global distribution, include over 300 identified genotypes, infect epithelial cells throughout the human body, and cause several distinct diseases. Most types lead to various cutaneous and genital warts, and others, such as HPV-16 and HPV-18, harbor a high risk for oncogenesis. In fact, the presence of HPV is consider necessary for the development of cervical cancer. Low-risk HPV types 6 and 11 are extremely common in the lesions of condyloma acuminata (genital warts) and juvenile-onset recurrent respiratory papillomatosis (JoRRP), where papillomas cause obstruction of the respiratory tract and are primarily treated by surgical removal. In cases of JoRRP, HPV-6 is more common, while HPV-11 is associated with earlier age of onset and need for surgical intervention, as well as increased risk of malignancy, making the ability to subtype HPV critical in guiding clinical management to improve patient outcomes. Real-time PCR provides a rapid and sensitive method to determine the presence of target-specific amplifiable nucleic acids in all samples intended for PCR¹. This assay detects both types 6 and 11 and distinguishes between them; results include both HPV types 6 and 11. For more information, call the lab at 513-636-9820.

Reporting Units:

Positive/Negative

Unacceptable Specimens:

- Frozen whole blood
- Swabs in gel or charcoal media

Shipping Conditions:

- BAL – ambient if sent within 24 hours; on cold packs if sent >24 hours after collection
- Fresh/frozen tissue – on dry ice
- FFPE tissue – ambient

Testing Schedule:

Testing for HPV-6/HPV-11 is performed Mon-Fri on first shift. For testing outside of this schedule, call the lab at 513-636-9820. **TAT:** 3-4 business days

CPT Codes:

87623

Contact Information:

Cincinnati Children's Division of Pathology
Molecular and Genomic Pathology Services (MGPS)

Phone: 513-636-9820

Fax: 513-517-7099

Email: pathology@cchmc.org

Website: cincinnatichildrens.org/pathology

For pricing or billing questions, call 513-636-4261.

Shipping Address:

Cincinnati Children's Hospital Medical Center
Attn: Molecular and Genomic Pathology Services (MGPS)
240 Albert Sabin Way, R2.001
Cincinnati, OH 45229

References:

1. Bonnez W. "Papillomavirus." In Richman D, Whitley R, Hayden F, eds. Clinical Virology. 3rd ed. American Society of Microbiology Press, Washington, D.C. Pages 603-644. 2009.

Sample Type	Volume Needed	Collection Container
Bronchoalveolar Lavage (BAL) fluid	1mL	Sterile Container
Fresh/frozen tissue	0.3g	Sterile Container
FFPE tissue	Block (preferred)	n/a
	Scrolls (3x10um)	Sterile Container
	Slides (6 unstained, 5um sections)	n/a

* Wrap tissue in gauze wetted slightly with sterile saline to keep moist during transport.

Clinical Lab Index:

HPV6&HPV11:

<https://www.testmenu.com/cincinnatichildrens/Tests/1208248>