



# Test Definition: HPVLR

Human Papillomavirus (HPV) Low Risk, In Situ Hybridization

## Overview

### Useful For

Detection of human papillomavirus from low-risk genotypes (6, 11)

### Method Name

In Situ Hybridization (ISH)

### NY State Available

Yes

## Specimen

### Specimen Type

Special

### Shipping Instructions

Attach the green "Attention Pathology" address label (T498) to the outside of the transport container before putting into the courier mailer.

### Necessary Information

**A pathology/diagnostic report and a brief history are required.**

### Specimen Required

**Supplies:** Pathology Packaging Kit (T554)

**Specimen Type:** Tissue

**Container/Tube:** Immunostain Technical Only Envelope

**Collection Instructions:** Formalin-fixed, paraffin-embedded tissue block; or 5 unstained glass, "positively charged" slides with 4-microns, formalin-fixed, paraffin-embedded tissue

### Forms

If not ordering electronically, complete, print, and send 1 of the following forms with the specimen:

[-Oncology Test Request \(T729\)](#)

[-Immunohistochemical \(IHC\)/In Situ Hybridization \(ISH\) Stains Request \(T763\)](#)

### Reject Due To

Wet/frozen tissue Cytology smears	Reject
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Nonformalin fixed tissue Nonparaffin embedded tissue Noncharged slides ProbeOn slides	
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## Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Special	Ambient (preferred)		
	Refrigerated		

## Clinical & Interpretive

### Clinical Information

Human papillomavirus infections with low-risk genotypes (6, 11) can cause benign hyperplasia, such as condylomas and papillomas.

### Reference Values

[Results are reported as positive or negative for types 6 and 11.](#)

### Interpretation

This test, when not accompanied by a pathology consultation request, will be answered as either positive or negative. If additional interpretation or analysis is needed, request PATHC / Pathology Consultation along with this test.

### Cautions

Age of a cut paraffin section can affect staining quality. Stability thresholds vary widely among published literature. Best practice is for paraffin sections to be cut within 6 weeks.

### Clinical Reference

- Lindemann ML, Dominguez MJ, de Antonio JC, et al. Analytical comparison of the cobas HPV test with hybrid capture 2 for the detection of high-risk HPV genotypes. *J Mol Diagn.* 2012;14(1):65-70
- Bishop JA, Ma XJ, Wang H, et al. Detection of transcriptionally active high-risk HPV in patients with head and neck squamous cell carcinoma as visualized by a novel E6/E7 mRNA in situ hybridization method. *Am J Surg Pathol.* 2012;36(12):1874-1882
- Mirghani H, Casiraghi O, Guerlain J, et al. Diagnosis of HPV driven oropharyngeal cancers: Comparing p16 based algorithms with the RNAscope HPV-test. *Oral oncology.* 2016;62:101-108
- Magaki S, Hojat SA, Wei B, So A, Yong WH. An introduction to the performance of immunohistochemistry. *Methods Mol Biol.* 2019;1897:289-298. doi:10.1007/978-1-4939-8935-5\_25

## Performance

### Method Description

In situ hybridization on sections of paraffin-embedded tissue.(Unpublished Mayo method)

### PDF Report

No

### Day(s) Performed

Monday through Friday

### Report Available

5 to 7 days

### Specimen Retention Time

Until staining is complete.

### Performing Laboratory Location

Mayo Clinic Laboratories - Rochester Main Campus

## Fees & Codes

### Fees

- Authorized users can sign in to [Test Prices](#) for detailed fee information.
- Clients without access to Test Prices can contact [Customer Service](#) 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact [Customer Service](#).

### Test Classification

This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. It has not been cleared or approved by the US Food and Drug Administration.

### CPT Code Information

88365-Primary

88364-If additional in situ hybridization

### LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
HPVLR	HPV Low-Risk ISH	In Process

Result ID	Test Result Name	Result LOINC® Value
71204	Interpretation	50595-8

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Human Papillomavirus (HPV) Low Risk, In Situ  
Hybridization

71205	Participated in the Interpretation	No LOINC Needed
71206	Report electronically signed by	19139-5
71208	Material Received	81178-6
71595	Disclaimer	62364-5
72113	Case Number	80398-1