MAYO CLINIC LABORATORIES

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

Nonformalin fixed tissue Nonparaffin embedded tissue Noncharged slides ProbeOn slides	

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

1. 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

2. 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

3. 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

4. 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

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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
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