

**Reporting Title:** MLH1 Hypermethylation Analysis, Tumor**Performing Location:** Rochester**Ordering Guidance:**

This test is not recommended as a first-tier screening measure for hereditary nonpolyposis colon cancer. For more information see TMSI / Microsatellite Instability, Tumor and IHC / Mismatch Repair (MMR) Protein Immunohistochemistry Only, Tumor.

Testing will only be performed on colon or endometrial tumors demonstrating loss of MLH1 protein expression by immunohistochemistry.

Mayo Clinic's preferred screening test includes both MLH1 promoter hypermethylation and BRAF V600E testing. Order BRMLH / MLH1 Hypermethylation and BRAF Mutation Analysis, Tumor.

Extracted DNA from tissues is not an acceptable specimen type.

**Necessary Information:**

Pathology report must accompany specimen in order for testing to be performed.

**Specimen Requirements:**

Specimen Type: Tissue block or slide

Collection Instructions:

1. Submit formalin-fixed, paraffin-embedded tissue block (preferred) or 1 slide stained with hematoxylin and eosin and 10 unstained, nonbaked slides (5-micron thick sections) of the tumor tissue.
2. Sections should contain tumor tissue.

**Specimen Minimum Volume:**

See Specimen Required

**Forms:**

1. Molecular Genetics: Inherited Cancer Syndromes Patient Information (T519)
2. If not ordering electronically, complete, print, and send 1 of the following forms with the specimen:
  - Gastroenterology and Hepatology Test Request (T728)
  - Oncology Test Request (T729)

Specimen Type	Temperature	Time	Special Container
Varies	Ambient (preferred)		

	Frozen	
	Refrigerated	

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
53299	Result Summary	Alphanumeric		50397-9
53300	Result	Alphanumeric		82939-0
53301	Interpretation	Alphanumeric		69047-9
53302	Reason for Referral	Alphanumeric		42349-1
53303	Specimen	Alphanumeric		31208-2
53304	Source	Alphanumeric		85298-8
54447	Tissue ID	Alphanumeric		80398-1
53305	Released By	Alphanumeric		18771-6

LOINC and CPT codes are provided by the performing laboratory.

**Supplemental Report:**

No

**CPT Code Information:**

81288

88381

**Reflex Tests:**

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
SLIRV	Slide Review in MG			Yes	No (Bill Only)

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**Reference Values:**

An interpretative report will be provided.