

## Overview

### Useful For

Producing tumor cell cultures that can be used for genetic analysis

### Genetics Test Information

This test is for the culturing of tumor cells for cytogenetic, molecular genetics, or other testing. The additional tests desired must be indicated on the electronic request or batch sheet that accompanies the specimen. No analysis or interpretation of results is performed.

### Special Instructions

- [Informed Consent for Genetic Testing](#)
- [Informed Consent for Genetic Testing \(Spanish\)](#)

### Method Name

Cell Culture

### NY State Available

No

## Specimen

### Specimen Type

Tissue

### Shipping Instructions

Advise Express Mail or equivalent if not on courier service.

### Necessary Information

Provide a reason for testing with each specimen. The laboratory will not reject testing if this information is not provided, but appropriate testing and interpretation may be compromised or delayed.

### Specimen Required

**Supplies:** [Hank's Solution \(T132\)](#)

**Container/Tube:** Sterile container with sterile Hank's balanced salt solution, Ringer's solution, or normal saline

**Specimen Volume:** 0.5-3 cm(3) or larger

### Forms

**New York Clients-Informed consent is required.** Document on the request form or electronic order that a copy is on file. The following documents are available in Special Instructions:

-[Informed Consent for Genetic Testing](#) (T576)

-[Informed Consent for Genetic Testing-Spanish](#) (T826)

### Specimen Minimum Volume

0.5 cm(3)

**Reject Due To**

No specimen should be rejected.

**Specimen Stability Information**

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

**Clinical and Interpretive****Clinical Information**

Cultured tumor cells can be used for a wide range of laboratory tests. Prior to testing, the tumor tissue will be cultured to obtain viable cells for genetic testing.

**Reference Values**

Not applicable

**Interpretation**

Once confluent flasks are established, the tumor cell cultures are sent to other laboratories, either within Mayo Clinic or to external sites, based on the specific testing requested.

**Cautions**[Interfering factors:](#)

- Lack of viable cells
- Bacterial contamination
- Cell death due to failure to transport tissue in an appropriate media
- Excessive transport time
- Exposure of the specimen to temperature extremes (freezing or >30 degrees C)
- Specimen has been stored or treated with formalin or another fixative or is paraffin-embedded

**Clinical Reference**

Nelson M: Cytogenetic methods and findings in human solid tumors. In: Arsham MS, Barch MJ, Lawce HJ, eds. The AGT Cytogenetics Laboratory Manual. 4th ed. John Wiley and Sons, Inc; 2017:579-587

**Performance****Method Description**

The tissue is dissociated using enzymes and/or mechanical means and transferred to culture coverslips and/or culture flasks. The cultures are incubated at 37 degrees C with 5% carbon dioxide, 5% oxygen, and 90% nitrogen for

1 to 10+ days depending on cell growth.(Jenkins RB, Kimmel DW, Moertel CA, et al: A cytogenetic study of 53 human gliomas. Cancer Genet Cytogenet. 1989;Jun;39[2]:253-279)

**PDF Report**

No

**Day(s) Performed**

Monday through Friday

**Report Available**

41 to 42 days

**Specimen Retention Time**

Not retained

**Performing Laboratory Location**

Rochester

**Fees and 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 Regional Manager. For assistance, contact [Customer Service](#).

**Test Classification**

Not Applicable

**CPT Code Information**

88239

**LOINC® Information**

Test ID	Test Order Name	Order LOINC Value
CULTU	Tumor, Culture for Genetic Testing	96449-4

Result ID	Test Result Name	Result LOINC Value
603823	Result Summary	86955-2
603824	Interpretation	69965-2
603825	Result	96449-4
GC044	Reason for Referral	42349-1
603826	Specimen	31208-2
603827	Source	85298-8
603828	Method	85069-3
603829	Additional Information	48767-8
603830	Released By	18771-6

