

Overview

Useful For

Producing amniocyte cultures that can be used for genetic analysis

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

Genetics Test Information

Aminocyte culture for prenatal genetic testing. The additional test(s) desired must be indicated on the request form that accompanies the specimen.

Special Instructions

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

Method Name

Cell Culture

NY State Available

Yes

Specimen

Specimen Type

Amniotic Fld

Specimen Required

Provide a reason for referral and gestational age 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.

Optimal timing for specimen collection is during 14 to 18 weeks of gestation, but specimens collected at other weeks of gestation are also accepted.

Container/Tube: Amniotic fluid container

Specimen Volume: 5-10 mL

Collection Instructions:

1. Discard the first 2 mL of amniotic fluid. If the culture will be performed in conjunction with chromosome analysis and alpha-fetoprotein, a total of approximately 25 mL to 30 mL will be needed for the combined studies.
2. Place the tubes in a Styrofoam container (T329).
3. Fill remaining space with packing material.
4. Unavoidably, about 1% to 2% of mailed-in specimens are not viable.

- 5. Bloody specimens are undesirable.
- 6. If the specimen does not grow in culture, you will be notified within 7 days of receipt.

Additional Information:

- 1. Advise Express Mail or equivalent if not on courier service.
- 2. Results will be reported and also telephoned or faxed, if requested.

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

5 mL

Reject Due To

No specimen should be rejected.

Specimen Stability Information

Specimen Type	Temperature	Time
Amniotic Fld	Refrigerated (preferred)	
	Ambient	

Clinical and Interpretive

Clinical Information

Fetal cells obtained by amniocentesis (amniocytes) are used for a wide range of laboratory tests. Prior to testing, the cells may need to be cultured to obtain adequate numbers of amniocytes.

Reference Values

Not applicable

Clinical Reference

Barch MJ, Knutsen T, Spurbeck JL: In The AGT Cytogenetics Laboratory Manual. Third edition, 1997

Performance

Method Description

The specimen is split into 8 to 10 separate culture dishes. The cells are grown on coverslips in culture media for 4 to 10 days. The cultures are trypsinized into 2 to 3 T25 tissue culture flasks or 1 to 2 T75 tissue culture flasks.(United

States Department of Health, Education and Welfare, Amniotic Fluid Cell Culture: Training Manual. Center for Disease Control, Atlanta, GA, 1980, pp 1-15)

PDF Report

No

Day(s) and Time(s) Test Performed

Samples processed Monday through Sunday. Results reported Monday through Friday; 8 a.m.-5 p.m., CST.

Analytic Time

23 days

Maximum Laboratory Time

24 days

Specimen Retention Time

Any remaining supernatant or whole fluid aliquots are discarded 14 days after results are reported.

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

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

CPT Code Information

88235

88240

LOINC® Information

Test ID	Test Order Name	Order LOINC Value
CULAF	Amniotic Fluid Culture/Genetic Test	In Process

Result ID	Test Result Name	Result LOINC Value
52304	Result Summary	50397-9
52306	Interpretation	69965-2
52305	Result	82939-0
CG767	Reason for Referral	42349-1



Result ID	Test Result Name	Result LOINC Value
52307	Specimen	31208-2
52308	Source	31208-2
52309	Method	49549-9
54641	Additional Information	48767-8
52310	Released By	18771-6