MAYO CLINIC LABORATORIES

FILE DEFINITION - TEST CHANGE

Notification Date: August 23, 2022
Effective Date: September 22, 2022

Miscellaneous Studies Using Chromosome-Specific Probes, FISH

Test ID: MISCF

Explanation:

On the effective date, the changes to specimen types listed below will take place. Please note that miscellaneous FISH testing of a hematologic nature will continue to be available under test code HEMMF.

Specimen Required:

Current Specimens Accepted
Amniotic fluid
Blood
Bone marrow
Chorionic villi (CVS)
Lymph node
Skin biopsy
Tissue block or slide
Tumor

New Specimens Accepted
Amniotic fluid
Blood (non-hematologic testing)
Chorionic villi
Lymph node
Skin biopsy
Tissue
Tumor

New Specimen Requirements:

Provide a reason for referral 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.

Advise Express Mail or equivalent if not on courier service.

Submit only 1 of the following specimens:

Specimen Type:	**Amniotic fluid**
Supplies:	Refrigerate/Ambient Shipping Box, 5 lb (T329)
Container/Tube:	Amniotic fluid container
Specimen Volume:	20-25 mL
Collection Instructions:	1. Optimal timing for specimen collection is during 14 to 18 weeks of gestation, but specimens collected at other weeks of gestation are also accepted. Provide gestational age at the time of amniocentesis. 2. Discard the first 2 mL of amniotic fluid. 3. Place the tubes in a shipping box. 4. Fill remaining space with packing material.

Specimen Type:	**Blood (only accepted for Congenital/Hereditary [nonhematologic] testing)**
Container/Tube:	Preferred: Yellow top (ACD) Acceptable: Green top (heparin) or lavender top (EDTA)
Specimen Volume:	6 mL
Collection Instructions:	1. Invert several times to mix blood. 2. Send whole blood specimen in original tube. **Do not aliquot.** 3. Other anticoagulants are not recommended and are harmful to the viability of the cells.
Specimen Type:	**Chorionic villi (CVS)**
Supplies:	CVS Media (RPMI) and Small Dish (T095)
Container/Tube:	15-mL tube containing 15 mL of transport media
Specimen Volume:	20 to 25 mg
Collection Instructions:	1. Collect specimen by the transabdominal or transcervical method. 2. Transfer chorionic villi to a Petri dish containing transport medium (e.g., CVS media (RPMI)). 3. Using a stereomicroscope and sterile forceps, assess the quality and quantity of the villi and remove any blood clots and maternal decidua.
Specimen Type:	**Lymph node**
Supplies:	Hank's Solution (T132)
Container/Tube:	Sterile container with sterile Hank's balanced salt solution, Ringer's solution, or normal saline
Specimen Volume:	1 cm(3)
Specimen Type:	**Skin biopsy**
Supplies:	Hank's Solution (T132)
Container/Tube:	Sterile container with sterile Hank's balanced salt solution, Ringer's solution, or normal saline
Specimen Volume:	1-cm(3) biopsy specimen of muscle/fascia from the thigh
Collection Instructions:	1. Wash biopsy site with an antiseptic soap. 2. Thoroughly rinse area with sterile water. 3. Do not use alcohol or iodine preparations. 4. A local anesthetic may be used. 5. Biopsy specimens are best taken by punch biopsy to include full thickness of dermis.
Specimen Type:	**Tissue**
Preferred:	Tissue block
Collection Instructions:	Submit a formalin-fixed, paraffin-embedded (FFPE) tumor tissue block. Blocks prepared with alternative fixation methods may be acceptable; provide fixation method used.
Additional Information:	1. Paraffin embedded specimens can be from any anatomic location (skin, soft tissue, lymph node, etc).

	2. Bone specimens that have been decalcified will be attempted for testing, but the success rate is approximately 50%.
Acceptable:	Slides
Collection Instructions:	For each probe set ordered, 4 consecutive, unstained, 5 micron-thick sections placed on positively charged slides. Include 1 hematoxylin and eosin-stained slide for the entire test order.
Specimen Type:	**Tumor**
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 to 3 cm(3) or larger

Questions

Contact Joshua Couchene, Laboratory Technologist Resource Coordinator at 800-533-1710.