

AmnioChoise, Complete Medium for Cultivation of Amnion and Chorionic Villi Cells

Cat. No.: AC100ML (100 ml)

Product Description

AmnioChoise is a ready to use medium and has been specifically developed for the prenatal diagnostic testing of human amnion and chorionic villi cells. The cultivation of these cells and the preparation of karyograms allow the detection of possible chromosomal aberrations. The medium is supplied frozen and contains serum, L-glutamine and antibiotics.

Product Specifications

CO ₂ concentration, optimum	5.0 %
pH	7.0 – 7.5
Endotoxin	<5 EU/ml
Amnion Cell Growth	Positive
Chromosomal Abberations	Negative
Mycoplasma	Not detected
Sterility	Tested
Storage	Store at ≤-15°C. After thawing, the medium should be stored at +2°C to +8°C. The medium should be used within 7 days after thawing. Protect the medium from light.

Thawing

Thaw AmnioChoise Medium at refrigerator temperatures (+2°C to +8°C). Mix gently after thawing. Note that the medium already contains L-glutamine and antibiotics.

Protocol

AmnioChoise Medium may be used for:

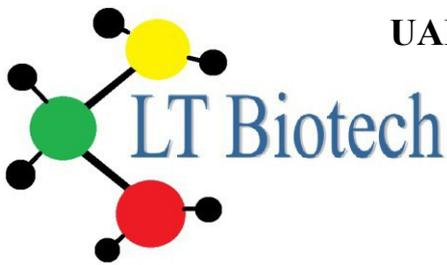
- Primary culture of amniotic fluid cells
- Culture of passaged amniotic fluid cells
- Propagation of chorionic villus cells

The medium may be used in both open and closed culture systems. It is recommended to use cells from 2.5 ml of amniotic fluid per one coverslip. The following protocol and the volumes indicated are only general guidelines for use.

This high quality medium can be used within established procedures. It is up to the user to adopt either parts or all of the optimized protocol described below.

In Situ Culture of Amniotic Fluid Cells

1. Concentrate the cells by centrifugation of the amniotic fluid: Centrifuge 20 ml of amniotic fluid at 750 rpm for 10 minutes.
2. Carefully decant the amniotic fluid from the cell pellet into a sterile test tube.
3. Re-suspend the cell pellet with 2 ml of amniotic fluid.



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4. Add 2 ml of AmnioChoise Medium and swirl gently.
5. Culture 0.5 ml of the cell suspension on each coverslip in a tissue culture dish.
6. Incubate cultures at +37°C in a 5 % CO₂ atmosphere.
7. Add 1.5 ml of AmnioChoise Medium to each culture on day 2.
8. Check cultures for growth after 4 to 5 days. Feed cultures once growth has been observed. To feed cultures, carefully aspirate all of the exhausted culture medium and replace with 2 ml of fresh AmnioChoise Medium. Recommendation: feed cultures every 2 days.
9. When the cultures have colonies of sufficient size, proceed with harvesting.
10. For best results, feed cultures with AmnioChoise Medium the day before the harvest

Flask Method Culture of Amniotic Fluid Cells – Open and Closed Systems

Use the same procedure as for the in situ culture, with the following adaptations:

1. Re-suspend the cell pellet with 4 ml of amniotic fluid. Add 16 ml of AmnioChoise Medium and swirl gently.
2. Culture 5 ml per T25 flask. Place the cap loosely on the flask and incubate undisturbed at +37°C in a 5 %CO₂ atmosphere.
For Closed Systems: Flush each culture flask with 5 % CO₂ – 95 % air through 0.2 μ sterile filter for 20 seconds. Tighten the caps and incubate the flasks at +37°C.
3. Check all flasks for growth after 5 days.

Precautions and Disclaimer

- For in vitro diagnostic use. The medium is not intended for therapeutic use.
- Do not use if a visible precipitate is observed in the medium.
- Use of AmnioChoise Medium does not guarantee the successful outcome of any prenatal diagnostic testing.
- Do not use AmnioChoise Medium beyond the expiration date indicated on the product label.