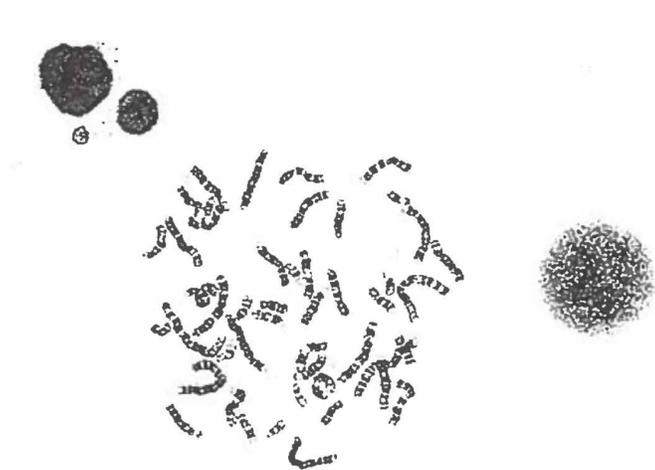


# Media and culture supplements for cytogenetic analysis

Every day, you make critical decisions based on what you see through a microscope. When your cytogenetic analysis is supported by Gibco™ media and culture supplements, you can be confident in the conclusions you reach. All Gibco cytogenetics products are optimized and pre-qualified for your diagnostic research needs.

You'll get clear, reproducible results that are simple to analyze and interpret when you use trusted cell culture media and reagents for cytogenetics: Gibco™ MarrowMAX™, AmnioMAX™, PB-MAX™, and KaryoMAX™ products.



**Figure 1. Chromosome spread from bone marrow cells.** Cells were cultured in Gibco™ MarrowMAX™ Bone Marrow Medium for 24 hours and G-banding analysis was performed.

## Exceptional performance

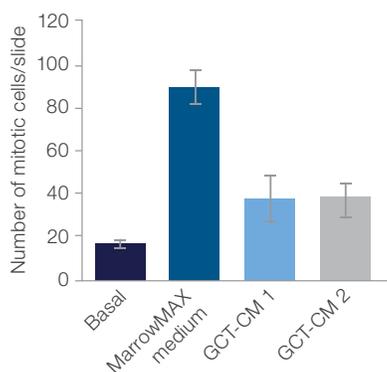
- Allows for culture upstream of chromosomal analysis (Figure 1)
- Outperforms commercially available giant cell tumor conditioned medium (GCT-CM) by achieving a high mitotic index (Figure 2)
- Enhances cell proliferation as compared to other common media types used to culture cells for cytogenetic analysis (Figures 3 and 4)

## Convenience

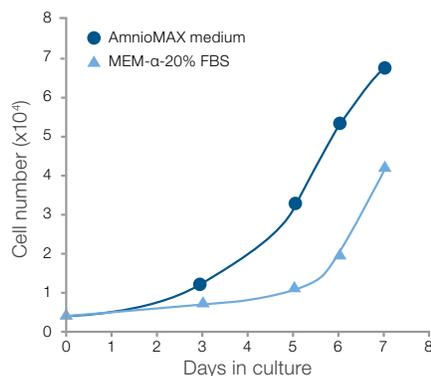
- Complete, ready-to-use media
- Fully supplemented with serum, gentamicin, and L-glutamine
- Store either frozen or refrigerated

## Peace of mind with each product

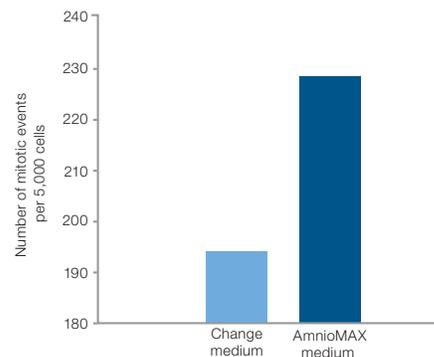
- Manufactured at a CGMP-compliant facility
- Facility is registered with the FDA as a medical device manufacturer and is certified to ISO 13485 standards
- Application-tested by an independent, certified cytogenetics laboratory to deliver clear, reproducible results in standard clinical cytogenetic protocols
- Third-party testing ensures consistent lot-to-lot performance
- Extended shelf life of AmnioMAX and MarrowMAX media; 18 months when stored unopened at  $-20^{\circ}\text{C}$  and 60 days stored at  $4^{\circ}\text{C}$



**Figure 2. Performance of MarrowMAX medium.** Cells were cultured in: basal medium without conditioned medium; MarrowMAX medium; Supplier 1 medium (GCT-CM 1); and Supplier 2 medium (GCT-CM 2) (both Supplier 1 and Supplier 2 media contain GCT-conditioned medium). Mitotic cells were counted 24 hours after plating.



**Figure 3. Growth kinetics of amniocytes cultured with AmnioMAX medium.** A representative growth curve of secondary amniocytes cultured in either AmnioMAX medium or MEM-α supplemented with 20% FBS is shown. Cell counts were taken at various intervals. Results shown are the mean of duplicate samples.



**Figure 4. Mitotic rate comparison of AmnioMAX medium and Chang medium.** The relative mitotic index rate for primary amniocytes cultured in either AmnioMAX medium or Chang medium *in situ* for 6 days was determined. The number of mitotic events per 5,000 cells was scored for each culture medium.

## Ordering information

Description	Size	Cat. No.
MarrowMAX Bone Marrow Medium	100 mL	12260014
	500 mL	12260001
AmnioMAX-II Complete Medium	100 mL	11269016
AmnioMAX-C100 Complete Medium (system) The system contains both the basal medium (90 mL) and the supplement (15 mL)	1 set	12558011
AmnioMAX-C100 Basal Medium, liquid	90 mL	17001082
	450 mL	17001074
AmnioMAX-C100 Supplement, liquid	15 mL	12556015
	75 mL	12556023
PB-MAX Karyotyping Medium	100 mL	12557013
	500 mL	12557021
KaryoMAX Colcemid Solution, liquid (10 mg/mL), in HBSS	10 mL	15210040
KaryoMAX Colcemid Solution, liquid (10 mg/mL), in PBS	10 mL	15212012
KaryoMAX Giemsa Stain Stock Solution	100 mL	10092013
KaryoMAX Potassium Chloride Solution	4 x 100 mL	10575090
Gurr Buffer Tablets	50 tablets	10582013
Amphotericin B	20 mL	15290018
Phytohemagglutinin, M form (PHA-M), lyophilized	10 mL	10576015

Learn more at [thermofisher.com/cytogenetics](https://thermofisher.com/cytogenetics)

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