

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.

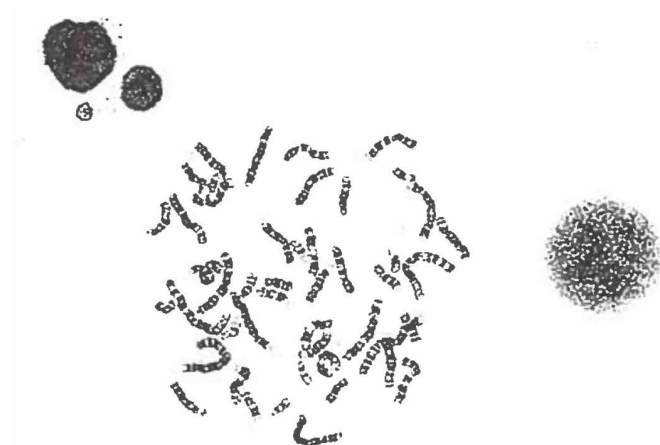


Figure 1. Chromosome spread from bone marrow cells. Cells were cultured in Gibco™ MarrowMAX™ Bone Marrow Medium for 24 hours and G-banding analysis was performed.

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°C and 60 days stored at 4°C

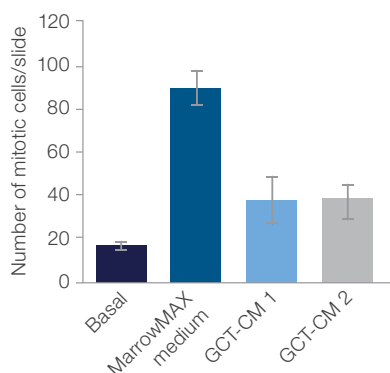


Figure 2. Performance of MarrowMAX medium. Cells were cultured in: basal medium without conditioned medium; MarrowMAX medium; Supplier 1 medium (GCT-CM 1); and Supplier 2 medium (GCT-CM 2) (both Supplier 1 and Supplier 2 media contain GCT-conditioned medium). Mitotic cells were counted 24 hours after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

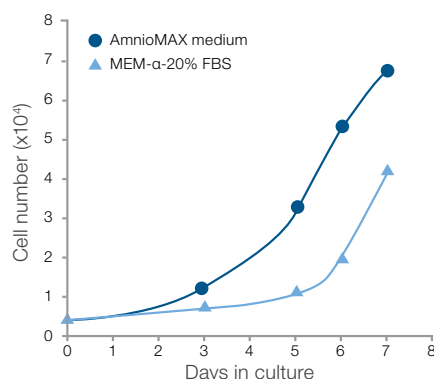


Figure 3. Growth kinetics of amniocytes cultured with AmnioMAX medium. A representative growth curve of secondary amniocytes cultured in either AmnioMAX medium or MEM-α supplemented with 20% FBS is shown. Cell counts were taken at various intervals. Results shown are the mean of duplicate samples.

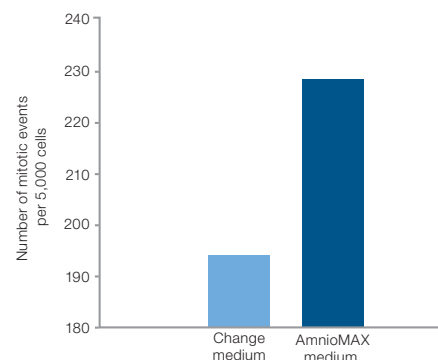


Figure 4. Mitotic rate comparison of AmnioMAX medium and Chang medium. The relative mitotic index rate for primary amniocytes cultured in either AmnioMAX medium or Chang medium *in situ* for 6 days was determined. The number of mitotic events per 5,000 cells was scored for each culture medium.

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

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