

MARROWMAX™ Bone Marrow Medium

P R O D U C T N E W S

- *Optimized for cytogenetic analysis*
- *High mitotic index*
- *Excellent chromosomal morphology*
- *Consistent performance*



Figure 1. Chromosome spread from normal bone marrow cells. Cells were cultured in MARROWMAX™ Medium for 24 h.

Analysis of human tumors and hematopoietic cells for diagnosis of malignancies is a rapidly growing area of clinical cytogenetics. For the short-term culture of bone marrow, peripheral blood, and hematopoietic cells required for these analyses, many labs use Giant Cell Tumor (GCT) conditioned media containing a variety of hematopoietic growth factors to supplement serum-containing cultures. However, it is difficult to achieve consistent high levels of analyzable cells with commercially available, or homemade formulations supplemented with GCT.

GIBCO™ MARROWMAX™ Bone Marrow Medium is a fully supplemented medium developed specifically to support bone marrow and peripheral blood cell culture for *in vitro* cytogenetic analysis of hematological disease.

MARROWMAX™ Bone Marrow Medium contains a novel human stromal cell conditioned medium. This conditioned medium is composed of a unique blend of hematopoietic growth factors for optimal cell growth. The medium is manufactured under strict controls ensuring consistent performance and superior chromosomal

morphology (*figure 1*). Using MARROWMAX™ Medium results in cultures with a high mitotic index and an increased number of analyzable cells.

Superior Performance

- Outperforms commercially available media containing GCT (*figure 2, reverse*).
- Higher mitotic index and superior chromosomal morphology.
- Consistent lot-to-lot performance (*figure 3, reverse*).

Convenience

- Complete, ready-to-use medium.
- Fully supplemented with serum, antibiotics and L-glutamine.
- Store either frozen or refrigerated.

Quality Assurance

- Manufactured in compliance with the FDA's Quality System Regulation (cGMP) and the current requirements of BS EN ISO 9001.
- Application tested by an independent certified cytogenetics laboratory using human bone marrow cells.
- Extended shelf life of nine months when stored at -20°C and 60 days stored at 4°C .

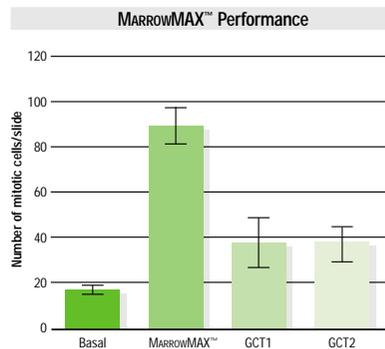


Figure 2. Comparison of media for stimulation of mitotic cells. Cells were cultured in basal medium without conditioned medium (Basal), MARROWMAX™ Medium which contains stromal cell-conditioned medium (MARROWMAX™), Supplier 1 Medium containing GCT-conditioned medium (GCT 1), and Supplier 2 Medium containing GCT-conditioned medium (GCT 2). Mitotic cells were assayed 24 h after plating. Results are mean ± SEM for N = 10 with up to 30 donors.

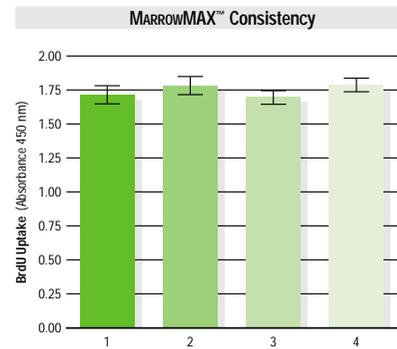


Figure 3. MARROWMAX™ Medium consistency. Normal bone marrow mononuclear cells were seeded at 1×10^5 cells/ml in 4 different lots of MARROWMAX™ Medium. Results are mean ± SEM for N = 10.

Ordering Information

Description	Cat. No.	Size	Quantity	Price
New! MARROWMAX™ Bone Marrow Medium**	12260-014	100 ml	1-19 20+	\$74.00 66.00
Related Products				
AMNIOMAX™ II Complete Medium	11269-016	100 ml	1-19 20+	\$33.50 30.80
AMNIOMAX™ -C100 Complete Medium (system) — The system contains both the medium (90 ml) and the supplement (15 ml)	27000-025	Set	1-19 20+	\$32.55 29.90
AMNIOMAX™ -C100 Basal Medium	17001-082	90 ml	1-19 20+	\$10.10 9.30
	17001-074	450 ml	1-9 10+	\$40.20 36.95
AMNIOMAX™ -C100 Supplement	17002-080	15 ml	1-19 20+	\$22.45 20.60
	17002-056	75 ml	1-9 10+	\$95.30 87.75
PB-MAX™ Karyotyping Medium	10386-035	100 ml	1-19 20+	\$20.60 19.00
	10386-043	500 ml	1-9 10+	\$86.70 79.80
KARYOMAX® COLCEMID®, Solution liquid (10 µg/ml), in HBSS	15210-040	10 ml	1-19 20+	\$9.90 9.20
KARYOMAX® COLCEMID®, Solution liquid (10 µg/ml), in PBS	15212-012	10 ml	1-19 20+	\$9.90 9.30
KARYOMAX® Giemsa Stain Stock Solution	10092-013	100 ml	1-19 20+	\$24.15 22.20
Gurr Buffer Tablets (pH 6.8)*	10582-013	50 × 1 L	1-19 20+	\$70.90 65.30
Phytohemagglutinin (M Form) (PHA), lyophilized*	10576-015	10 ml	1-9 10+	\$19.55 17.95

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