

Media and Reagents for Cytogenetics

Description	Catalogue No.	Size
Phytohaemagglutinin (M Form) (PHA), lyophilized* Lyophilized extract of the red kidney bean <i>Phaseolus vulgaris</i> . Capable of inducing blastogenesis <i>in vitro</i> in various mammalian mononuclear cells. PHA is a crude sodium chloride extract of beans that have been homogenized in a saline solution at 2°C to 8°C. <i>Concentration:</i> Because of the undefined nature of this extract, we are not able to assign weight/volume values on the active material in our final product. <i>End use:</i> 1 to 2 ml of rehydrated PHA per 100 ml of culture medium. Note: PHA may appear cloudy at refrigerated temperatures (2°C to 8°C). This turbidity should clear as the rehydrated solution is brought to room temperature. <i>Recommended storage condition before rehydration:</i> 2°C to 8°C <i>Recommended storage condition after rehydration:</i> -5°C to -20°C	10576-015	10 ml
IVD Potassium Chloride Solution, 0.075 M A premixed 0.075 M hypotonic solution. <i>Recommended storage condition:</i> 2°C to 8°C	10575-108	4 X 100 ml
IVD RPMI 1640 Medium (1X), liquid with L-Glutamine and phenol red. <i>Recommended storage condition:</i> 2°C to 8°C	21875-042 21875-034 21875-059 21875-109 • 21875-091 • 21875-158 •	100 ml 500 ml 1,000 ml 20 X 100 ml 10 X 500 ml 6 X 1,000 ml
RPMI 1640 Medium (1X), liquid (Folate-Free)* with L-Glutamine, without folic acid. <i>Recommended storage condition:</i> 2°C to 8°C	27016-021	500 ml
Trypsin, 2.5% (10X), liquid* Porcine parvovirus and mycoplasma tested. with 25 g/L of trypsin (1:250) and 8.5 g/L of NaCl, without phenol red. Source: porcine <i>Recommended storage condition:</i> -5°C to -20°C	15090-046	100 ml
Water, distilled* Membrane filtered, cell culture tested, and endotoxin screened.	15230-071 15230-089 15230-097 15230-188 •	100 ml 500 ml 1,000 ml 10 X 500 ml

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- Optimized and prequalified for cytogenetics
- Produce clear, reproducible results that are easy to analyze and interpret

Every day, you make critical decisions based on what you see through a microscope. GIBCO™ products for cytogenetics give everything you need to have confidence in your conclusions.

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

Optimized for Cytogenetics, Certified for Consistency
 MarrowMAX™, AmnioMAX™, PB-MAX™, and KaryoMAX® products are specifically formulated and application tested by an independent laboratory to deliver clear, reproducible results in standard clinical cytogenetic protocols involving the analysis of bone marrow cells, amniotic fluid cells, chorionic villus samples, and peripheral blood lymphocytes.

Our production process and strict quality control ensure that every lot of MarrowMAX™, AmnioMAX™, PB-MAX™, and KaryoMAX® product will support healthy cell morphology and rapid culture growth.

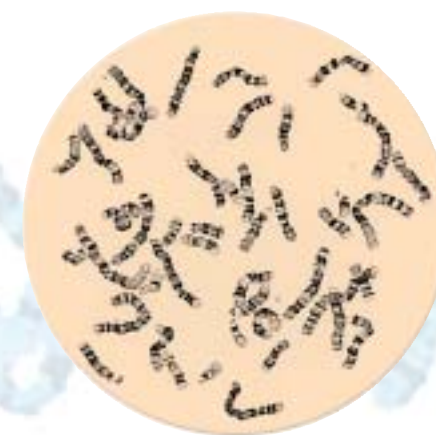
Peace of Mind with Each Product
 For over 40 years, GIBCO™ products for cell culture have set the global standard for quality and reliability.

Our products for cytogenetics are manufactured in compliance with the FDA's Quality System Regulation (cGMP) and the current requirements of ISO 9001 at our Grand Island, New York facility.

You can rest assured that we maintain rigorous control of all production stages, from raw materials to finished product. Our controlled manufacturing process and decades of experience ensure lot-to-lot consistency and reproducible performance.

We Know What Matters
 At Invitrogen, we understand the high level of service and support required in cytogenetics laboratories, so we strive to help you in every way possible.

Have questions? Need data? Contact Cell Culture Technical Services: eurotech@invitrogen.com or go to www.invitrogen.com.



Clearly Superior Morphology

Figure 1. Chromosome spread from normal bone marrow cells cultured in GIBCO™ MarrowMAX™ Bone Marrow Medium for 24 hours.



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IVD These products are for *in vitro* diagnostic use and are not intended for human or animal therapeutic use. Uses other than the labeled intended use may be a violation of federal law.

MarrowMAX™ Bone Marrow Medium is subject to Limited Label License No. 31.
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GIBCO™ Media and Reagents for Cytogenetics

	Description	Catalogue No.	Size
IVD	MarrowMAX™ Bone Marrow Medium (with Gentamicin) <i>Recommended storage condition: -5°C to -20°C</i>	12260-022	100 ml
IVD	AmnioMAX™-II Complete Medium (with Gentamicin) <i>Recommended storage condition: -5°C to -20°C</i>	11269-032	100 ml
IVD	AmnioMAX™-C100 Complete Medium (kit) The system contains both the medium (90 ml) and the supplement (15 ml). (supplement with Gentamicin)	12558-029	set
IVD	AmnioMAX™-C100 Basal Medium, liquid <i>Recommended storage condition: 2°C to 8°C</i>	17001-140 17001-157	90 ml 450 ml
IVD	AmnioMAX™-C100 Supplement, liquid <i>Recommended storage condition: -5°C to -20°C</i> (supplement with Gentamicin)	12556-031 12556-049	15 ml 75 ml
IVD	PB-MAX™ Karyotyping Medium with foetal bovine serum, phytohemagglutinin, and antibiotics. <i>Recommended storage condition: -5°C to -20°C</i> (supplement contains Gentamicin)	12557-039 12557-047	100 ml 500 ml
IVD	KaryoMAX® Colcemid® Solution, liquid (10 µg/ml), in HBSS	15210-057	10 ml
IVD	KaryoMAX® Colcemid® Solution, liquid (10 µg/ml), in PBS Prepared in Hanks' Balanced Salt Solution or Phosphate-Buffered Saline. <i>Recommended storage condition: 2°C to 8°C</i>	15212-046	10 ml
IVD	KaryoMAX® Giemsa Stain Stock Solution	10092-054	100 ml
	Antibiotic-Antimycotic (100X), liquid* Prepared with 10,000 units of penicillin (base), 10,000 µg of streptomycin (base), and 25 µg of amphotericin B/ml utilizing penicillin G (sodium salt), streptomycin sulfate, and amphotericin B as Fungizone® Antimycotic in 0.85% saline. <i>Spectrum: bacteria, fungi, and yeasts</i> <i>Recommended storage condition: -5°C to -20°C</i>	15240-096 15240-062	20 ml 100 ml
	Collagenase, lyophilized* Prepared from <i>Cl. histolyticum</i> . <i>E.C. Number: 3.4.2.4.3</i> <i>Activity: 125 to 200 units/mg weight. One unit will liberate 1 µmol amino acid from collagen, expressed as L-Leucine, in 18 h at 37°C</i> <i>Recommended storage condition: 2°C to 8°C</i>	17018-029	500 mg
IVD	Foetal Bovine Serum, Certified (US) Performance, mycoplasma, virus, bacteriophage, and endotoxin tested. <i>Endotoxin level: ≤10 EU/ml</i> <i>Hemoglobin level: ≤15 mg/dl</i> <i>Recommended storage condition: -5°C to -20°C</i>	16000-036 16000-044	100 ml 500 ml
IVD	Foetal Bovine Serum, Qualified (US) Performance, mycoplasma, virus, and endotoxin tested. <i>Recommended storage condition: -5°C to -20°C</i>	26140-087 26140-079 26140-095	100 ml 500 ml 1,000 ml
IVD	Foetal Bovine Serum, Qualified, Heat-Inactivated (US) Performance, mycoplasma, endotoxin, and virus tested. <i>Recommended storage condition: -5°C to -20°C</i>	16140-071	500 ml

	Description	Catalogue No.	Size
	Fungizone® Antimycotic, liquid* Prepared with 250 µg of amphotericin B and 205 µg of sodium deoxycholate/ml as a stabilizer in distilled water. <i>Spectrum: fungi and yeasts</i> <i>Recommended concentration: 0.25 to 2.5 µg/ml</i> <i>Recommended storage condition: 2°C to 8°C</i>	15290-018 15290-026	20 ml 50 ml
	Gentamicin Reagent Solution (10 mg/ml), liquid* Prepared with 10 mg/ml gentamicin sulfate in distilled water. <i>Spectrum: gram-positive and gram-negative bacteria</i> <i>Recommended concentration: 0.5 to 50 µg/ml</i> <i>Recommended storage condition: 15°C to 30°C</i>	15710-049	100 ml
	Gurr Buffer Tablets (pH 6.8)* Optimized to prepare a litre of buffer at pH 6.8 for dilution of Giemsa stain.	10582-013	50 × 1 L
IVD	Hanks' Balanced Salt Solution (HBSS) (1X), liquid without calcium chloride, magnesium chloride, or magnesium sulfate. <i>Recommended storage condition: 15°C to 30°C</i>	14170-070 14170-088 14170-138 •	100 ml 500 ml 10 × 500 ml
IVD	Hanks' Balanced Salt Solution (HBSS) (1X), liquid without calcium chloride, magnesium chloride, magnesium sulfate, or phenol red. <i>Recommended storage condition: 15°C to 30°C</i>	14175-053 14175-129 •	500 ml 10 × 500 ml
IVD	L-Glutamine-200 mM (100X), liquid Supplied at 29.2 mg/ml in 0.85% NaCl. <i>pH: 4.7 to 5.6</i> <i>Recommended storage condition: -5°C to -20°C</i>	25030-032 25030-024	20 ml 100 ml
IVD	Minimal Essential Medium (MEM) Alpha Medium (1X), liquid Supplemented MEM Alpha with L-Glutamine, ribonucleosides, and deoxyribonucleosides. <i>Recommended storage condition: 2°C to 8°C</i>	12571-020 12571-038 •	500 ml 10 × 500 ml
	Pancreatin 4X USP (10X), liquid* Contains 25.0 g of pancreatin and 8.5 g of NaCl/L. <i>Dilution: Aseptically prepare 1X solution in balanced salt solution without calcium magnesium to achieve a concentration of 2.5 g/L pancreatin</i> <i>Recommended storage condition: -5°C to -20°C</i> Available as custom formulation.	002-0036DG	100 ml
	Penicillin-Streptomycin, liquid* Prepared with 10,000 units of penicillin (base) and 10,000 µg of streptomycin (base)/ml utilizing penicillin G (sodium salt) and streptomycin sulfate in 0.85% saline. <i>Spectrum: gram-positive and gram-negative bacteria</i> <i>Recommended storage condition: -5°C to -20°C</i>	15140-148 15140-122	20 ml 100 ml
	Penicillin-Streptomycin, liquid* Prepared with 5,000 units of penicillin (base) and 5,000 µg of streptomycin (base)/ml utilizing penicillin G (sodium salt) and streptomycin sulfate in 0.85% saline. <i>Spectrum: gram-positive and gram-negative bacteria</i> <i>Recommended storage condition: -5°C to -20°C</i>	15070-063	100 ml
	Penicillin-Streptomycin-Glutamine (100X), liquid* with 10,000 units of penicillin (base), 10,000 µg streptomycin (base), and 29.2 mg of L-Glutamine/ml in 0.85% saline, in a 10 mM citrate buffer to maintain penicillin potency. Utilizes penicillin G (sodium salt) and streptomycin sulfate. <i>Spectrum: gram-positive and gram-negative bacteria</i> <i>Recommended storage condition: -5°C to -20°C</i>	10378-016	100 ml

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* The noted products are for laboratory research use only and not for diagnostic use

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