



Cytogenetics



Excellence in Cytogenetic Diagnostics

Capricorn Scientific was founded more than 4 years ago to manufacture products for biomedical research, diagnostics and production. Today we provide a wide range of cell culture sera, media and reagents.

Since the company was established, we have grown to become one of the most innovative manufacturers of products for biotechnology. Our production facility in Germany meets the highest standards for cell culture products. We manufacture top quality products under class 100 conditions, complying with the highest pharmaceutical standards.

At Capricorn Scientific we understand that assuring the supply of your essential cytogenetic cell culture reagents is of utmost importance for maintaining excellent patient care. To meet these demands we have implemented advanced logistics and inventory systems for immediate delivery at any time.

Our standard range of products has been extended to include a new product line for the field of cytogenetics. This was developed as the result of intensive co-operation with partners in industry and research.

In the field of pre-natal diagnostics, we offer **AmnioPrime**, a complete medium for quick and reliable diagnosis of chromosomal abnormalities.

With **LymphoPrime**, our ready-to-use growth medium for culturing blood cells, makes the preparation of clear karyograms for chromosome analysis possible.

More detailed information on these products and other cytogenetic products can be found on the following pages.

- ☒ Reliable
- ☒ Competent
- ☒ Quality driven
- ☒ Made in Germany



AmnioPrime

The new Standard for Culturing Amniocytes and Chorionic Villi Cells

Pre-natal Diagnosis

Amniocentesis and chorionic villi sampling are important prenatal diagnostic tests. They both involve culturing isolated fetal cells, followed by chromosome analysis to detect chromosomal abnormalities. An important prerequisite for successful amniocytes and chorionic villi cell growth is the use of pre-tested complete media.

AmnioPrime for Selective and Rapid Growth

Capricorn Scientific has developed a new product in cooperation with a number of institutes for human genetics. By adding new growth factors, considerable improvement in the growth characteristics of amniocytes and chorionic villi cells has been achieved. This state-of-the-art media enables rapid growth while simultaneously inhibiting other cell types.

With AmnioPrime, unambiguous karyograms for the identification of chromosomal abnormalities can be drawn.

Extensive Quality Controls

Batches of AmnioPrime are tested regularly by two independent cytogenetic laboratories to assure consistency in its capability to support the growth of primary amniocytes and chorionic villi cells.

- ☒ Ready to use medium
- ☒ Improved growth
- ☒ No chromosome breaks
- ☒ Unambiguous results
- ☒ Cell harvesting after only 7-10 days

Order information	Cat.No.	Vol.
AmnioPrime	APR-B	100 ml



LymphoPrime

The Complete Medium for Culturing Lymphocytes from Peripheral Blood

Post-natal Diagnostics

In cytogenetics karyotyping is an important tool to detect chromosome abnormalities. It involves culturing lymphocytes from peripheral blood, followed by chromosome analysis.

LymphoPrime for Culturing Lymphocytes

LymphoPrime is Capricorn's complete medium for the selective growth of peripheral blood lymphocytes. It consists of a modified medium RPMI 1640, Phytohaemagglutinin (PHA) and FBS pre-tested on lymphocytes.

Optimized Phytohaemagglutinin Concentration

In addition to FBS, the mitogen PHA is one of the growth-determining factors. We have optimized its concentration for stimulating lymphocyte growth.

Improved Karyograms

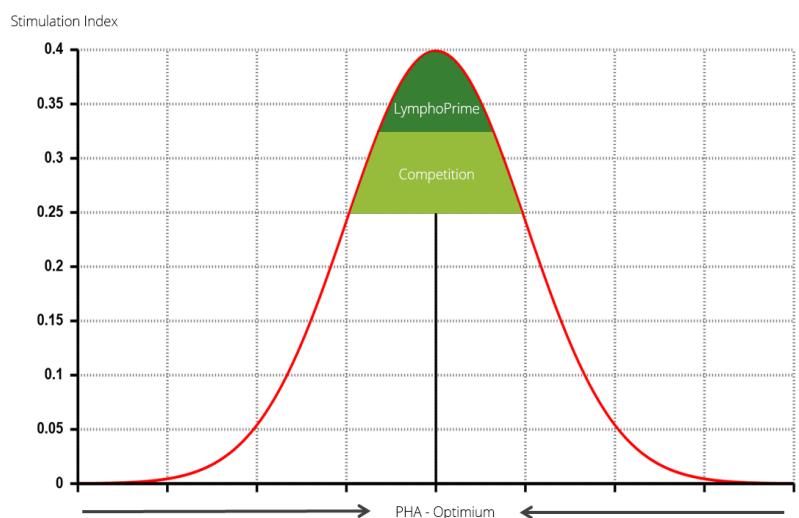
LymphoPrime stimulates a large proportion of lymphocytes to grow. Adequate cells are therefore available for further preparation of intact chromosomes for karyotyping. Consequently, clear karyograms to detect chromosome abnormalities can be drawn.

Quality Standards

Every batch of LymphoPrime has been tested by an independent cytogenetic laboratory for its capacity to stimulate the growth of peripheral blood lymphocytes. The resulting karyograms are compared with reference standards.

- ✓ Complete, ready to use medium
- ✓ Suitable for lymphocyte enriched blood
- ✓ Optimized PHA concentration
- ✓ Simple proof of chromosome aberrations
- ✓ Unambiguous results

Order information	Cat.No.	Vol.
LymphoPrime	LPR-B	100 ml



Tested by independent laboratories in comparison with similar media. LymphoPrime contains an optimized PHA concentration to stimulate lymphocytes to a maximum. Only at maximum stimulation index the growth of lymphocytes is strong enough for an accurate diagnosis.

Stimulation Index: amount of cells for diagnosis / amount of cells at start of culture



MarrowPrime

Tumor Cytogenetics at its Best

Tumor Cytogenetics

Tumor cytogenetics is an increasing diagnostic tool to detect chromosomal aberration in tumor cells and tissues. The cultivation of cells of the blood generating systems, especially for leukemia detection, depends strongly on the reliability, homogeneity and reproducibility of the medium in use.

Ready to Use Medium

Capricorn Scientific has developed with MarrowPrime, a medium based on a basal medium, pre-tested FBS and a collection of well balanced growth components. MarrowPrime Medium is intended for in-vitro use and has been designed for establishing cultures of bone marrow and leukemic blood cells, which may be used in karyotyping, fluorescence in-situ hybridization (FISH) and other cytogenetic procedures.

Wide Range of Usage

MarrowPrime Medium can be used as a non-specific medium to culture the different hematopoietic cells like myeloid or lymphoid lineages present in bone marrow. Also a fast and unambiguous detection of chromosomal aberrations in leukemic blood samples is possible.

- ✓ Superior Performance
- ✓ Exact chromosomal morphology
- ✓ High mitotic index
- ✓ Lot to lot consistency
- ✓ Outperforms conditioned media

Order information	Cat.No.	Vol.
MarrowPrime, CE certified	MP-B	100 ml

More high quality cytogenetics products:



Order information	Cat.No.	Vol.
Colcemid	COL-H	10 ml
Phytohaemagglutinin	PHA	5 ml

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