

Serana Europe - Leading Manufacturer and Supplier of Cell Culture Products

Serana Europe GmbH is a leading manufacturer and supplier of cell culture products. Our product range includes animal & human sera, sterile liquid & powdered classical media, reagents, supplements, and buffer solutions for cell culture applications. Serana's products are used in all areas where cell culture is performed. This includes the biopharmaceutical industry for the production of vaccines, therapeutic proteins and diagnostics. In addition, we are a major supplier to Academic R&D institutes (universities, hospitals & clinics), private research organizations and various biotech companies.

Our quality assurance team guarantees exceptional quality manufacturing standards which follows relevant guidelines and regulatory requirements. We are EDQM, ISO 9001, and ISO 13485 certified, and our team is dedicated to continuously improve our quality management system. Our quality control department also offers a wide variety of relevant biological, molecular and biochemical assays as a service. We have certified manufacturing facilities in Germany and Australia, which makes us an ideal global partner with validated storage and delivery logistics world-wide.



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Our quality promise

Products manufactured by Serana utilize stringent operating and quality control procedures. Detailed production and traceability records are available for every batch produced. A battery of QC tests are performed including: physical and chemical analysis, protein profiling, sterility, virology, biochemistry and cell culture performance benchmarking. Only batches that pass Serana's rigorous quality control procedures are released for sale. Detailed certificates of analysis are prepared and made available for each lot produced.

ANIMAL BLOOD PRODUCTS BY-PRODUCTS

HUMAN BLOOD PRODUCTS BY-PRODUCTS

CLASSICAL MEDIA

CELL CULTURE SUPPLEMENTS, BUFFERS AND REAGENTS

DIAGNOSTIC PRODUCTS

CONTRACT SERVICES



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Lymphogrow

Complete and superior Karyotyping Medium for Peripheral Blood Lymphocytes

Advantages

- Optimized superior formulation by Serana R & D team
- Superior chromosomal morphology (Fig. 1) and higher mitotic index (Fig. 2)
- Superior growth support of short-term and long-term lymphocyte cultivation
- Consistent Lot-to-lot performance
- Comprehensive QC specifications (in product TDS)
- Manufactured at Serana ISO 13485-certified facility in

Convenience

- Complete, ready-to-use medium Fully supplemented with FBS, antibiotics, and L-glutamine
- Detailed available IFU in the product Technical datasheet.
- Flexible to be ordered in different volume packaging from 50ml to 1000ml per Unit.

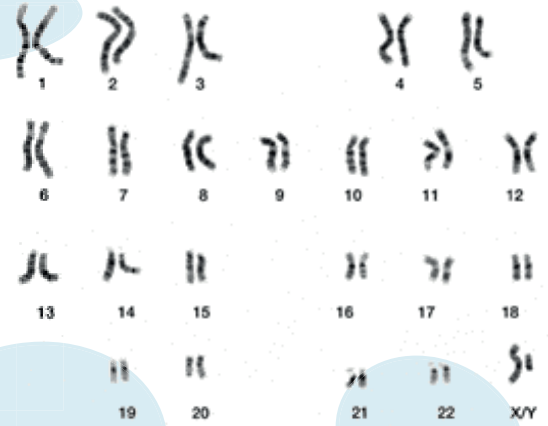


Fig 1. Mitotic spreads of human PBLs cultured with Lymphogrow as described in the product TDS.

Photomicrograph of a microscope slide stained with Giemsa. Left: Sister chromatids during prophase; right: Chromosomes during Prometaphase.

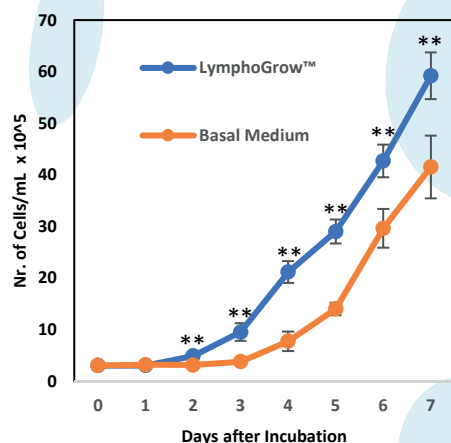


Fig. 2. Superiority of Lymphogrow in providing higher Lymphocyte growth over eight days of incubation. One-way ANOVA with subsequent Duncan post test ($p < 0.001$). Error bars represent SE.

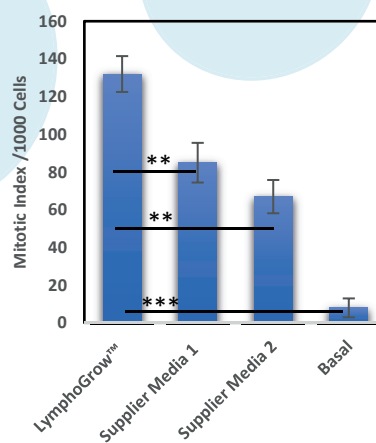


Fig. 3. Superiority of Lymphogrow in providing higher Mitotic Index (MI).

MI ± SE (0.5 h colcemid incubation time). One-way ANOVA with subsequent Tukey HSD post hoc test ($p < 0.001$).

Related Products

AmnioGrow	AMG-001
Phytohemagglutinin (PHA-M)	CDS-001
Colcemid solution	CDS-002
Potassium Chloride solution	CDS-003
Sodium Citrate Solution	CDS-004
Trypsin EDTA Solution	CDS-005

For the latest technical data and pricing, please refer to the Serana-Europe website. serana-europe.com/products/lmg-001-100ml



ORDERING INFORMATION

PRODUCT	OPTIONS	VOLUME	STORAGE	SHELF LIFE	CODE
Lymphogrow	Complete and superior Karyotyping Medium for Peripheral Blood Lymphocytes	100 ml	-15 to -20°C	2 Years	LMG-001-100ML

For complete current specifications and other technical information please see the technical data sheet on our website www.serana-europe.com

Should you have any specific product requirements that our stock product offering cannot fulfill;

please don't hesitate to ask if we can tailor-make a product to your specifications.