

Datasheet

Marrowpan

Complete Medium for the Cultivation and for Cytogenetic Analysis of Bone Marrow, Peripheral Blood and Hematopoietic Cells

Product	Description	Catalogue-No.	Size
Marrowpan	Complete medium for the cultivation and cytogenetic analysis of bone marrow, peripheral blood and hematopoietic cells	P04-70200 P04-70250	100 ml 500 ml

Product Description

Marrowpan is a complete ready-to-use medium intended for cultivation of bone marrow, peripheral blood and hematopoietic cells with a short term culture of bone marrow and other hematopoietic cells for cytogenetic studies.

Marrowpan is intended for *in vitro* use and has been designed for establishing cultures of bone marrow and leukemic blood cells, which then can be used in karyotyping, fluorescence in-situ hybridisation (FISH) or other cytogenetic procedures.

Marrowpan can be used as a neutral medium to culture different hematopoietic cells (myeloid and lymphoid lineages) present in bone marrow or leukemic blood samples. Marrowpan is also used together with a mitogen specific for B or T lymphocytes where these particular lineages are being investigated.

Storage conditions

Storage: -20°C in the dark
 Stability: 2 years
 Size: 100 ml, other sizes on request

Composition

Marrowpan is supplied frozen as a complete medium, ready-to-use in a 100 ml format. It is based on alpha-MEM and contains antibiotics, L-glutamine, fetal bovine serum (FBS), hormones and growth factors.

Suitability

Marrowpan is a complete medium (ready-to-use) for the cultivation of cells from peripheral blood or bone marrow. It is suitable for a rapid expansion of blood cells in order to investigate leukemic diseases (e.g. ALL, AML, CLL, CML, MPN, MDS). The state of the art diagnostic techniques of leukemic diseases are based on the interaction of cytomorphology including cytochemistry with immunophenotyping, chromosome banding analysis, FISH and molecular genetics. The number and quality of metaphases in Marrowpan are significantly higher and independent of individual batches as compared to serum-containing media.

Instructions for Use

Marrowpan is a complete medium, provided in a frozen, sterile format. Re-filtering of the medium is not necessary. Thawed Marrowpan can be used up to 2 weeks when stored at 2-8° C. Repeated warming and cooling and exposure to light should be avoided.

Performance Testing

Marrowpan is tested for pH, osmolarity, bacterial, mycoplasma and fungal contamination. A Certificate of Analysis is available upon request.

Addition of specific growth factors

In some cases specific growth factors may be added to enhance the number of metaphases and to increase the mitotic index.

B-CLL	CD40 ligand or CpG oligonucleotide (2 μ M) + IL-2 (200 U/ml)
AML, CML, CMPD, MDS	G-CSF(10ng/ml) + GM-CSF (1ng/ml) + IL-3 (5ng/ml) + SCF (20ng/ml)

Precautions

Do not use product when the packaging appears compromised or visible precipitate is observed or the product is received thawed or partially thawed. Avoid prolonged exposure to light. As Marrowpan contains FBS, flocculent debris may develop upon thawing and storage.

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

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