

KREAvital Bone Marrow Karyotyping Medium

Cat. No. KBI-90030 (100 ml)
Store at: -20°C

Product Description

KREAvital Bone Marrow Karyotyping Medium is intended for use in short-term cultivation of primary bone marrow cells for chromosome evaluation. It is based on RPMI-1640 basal medium supplemented with L-Glutamine, fetal bovine serum, and antibiotics (penicillin and streptomycin). The medium does not contain any mitogens or conditioned medium.

KREAvital Bone Marrow Karyotyping Medium is supplied as frozen medium, which is ready for use after thawing.

Precaution and Disclaimer

1. For in vitro diagnostic use. The medium is not intended for therapeutic use.
2. Do not use if a visible precipitate is observed in the medium.
3. Use of KREAvital Bone Marrow Karyotyping Medium does not guarantee the successful outcome of any chromosome analysis testing.
4. Do not use KREAvital Bone Marrow Karyotyping Medium beyond the expiration date indicated on the product label.

Storage and Stability

KREAvital Bone Marrow Karyotyping Medium should be kept frozen at -20°C. After thawing, the medium should be stored at 2 - 8°C. The medium should be used within 10 days after thawing. Protect the medium from light.

Instructions for Use

Thaw KREAvital Bone Marrow Karyotyping Medium at refrigerator temperatures (2 - 8°C) or at room temperature. Mix gently after thawing.

The medium may be supplemented with growth factors or mitogens if required.

Note that the medium already contains L-Glutamine.

Culture of Bone Marrow Cells for Chromosome Analysis

The bone marrow karyotyping method was developed to provide information about chromosomal abnormalities. The ready-to-use medium is intended for the culture of bone marrow cells without any mitogens or conditioned medium. After 48 - 72 hours, a mitotic inhibitor is added to the culture to stop mitosis in the metaphase stage. After treatment by hypotonic solution, fixation and staining, chromosomes can be microscopically observed and evaluated for abnormalities.

Procedure

1. Inoculate approximately 0.5 ml of bone marrow suspension into a plastic tube or tissue culture plate with 10 ml of medium. Invert tubes gently to mix specimen.
2. Incubate the culture at 37°C in 5% CO₂ atmosphere for 72 hours.
3. Add 0.1 - 0.2 ml of Colcemid Solution (KBI-90051) to each culture tube. Incubate the culture for an additional 15-30 minutes. Proceed with regular fixation protocol. For specific protocol please enquire.

Quality Control

KREAvital Bone Marrow Karyotyping Medium is tested for sterility, pH, osmolality and endotoxin concentrations.

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