



HematoGro Medium–Animal Component Free (HemGM-ACF)

Catalog #5521

Product Description

HematoGro Medium–Animal Component Free (HemGM-ACF), when used with HematoGro Supplement–Animal Component Free (HemGS-ACF, Cat #5562) is a complete medium designed for short-term maintenance of hematopoietic cells *in vitro*, including bone marrow mononuclear and peripheral blood cells. It is a sterile, liquid medium which contains essential and non-essential amino acids, vitamins, hormones, organic and inorganic compounds and recombinant human serum albumin. The medium is HEPES and bicarbonate buffered and has a pH of 7.4 when equilibrated in an incubator with an atmosphere of 5% CO₂/95% air. This medium does not contain serum, growth factors, cytokines or animal-derived components. Supplementation with additional factors may be used to support the proliferation or differentiation of select cell subpopulations.

Components

HemGM-ACF consists of 500 ml of basal medium, 5 ml of HematoGro Supplement–Animal Component Free (HemGS-ACF; Cat #5562) and 5 ml of penicillin/streptomycin solution (P/S; Cat. #0503). *Note: HemGS-ACF and P/S are not pre-mixed in HemGM-ACF; they must be added separately to make the complete HemGM-ACF.*

Product Use

HemGM-ACF is for research use only. It is not approved for human or animal use, or for application in *in vitro* diagnostic procedures.

Storage

Store the basal medium at 4°C and the HemGS-ACF and P/S solution at -20°C. Protect from light.

Shipping

Basal medium: room temperature. Supplements: dry ice.

Instructions for Use

Thaw HemGS-ACF and P/S solution at 37°C. Gently tilt the tubes several times to ensure the contents are completely mixed before adding to the medium. Spray the medium bottle and tubes with 70% ethanol, and wipe to remove excess liquid. In a sterile field, remove the caps without touching the interior threads with fingers. Add HemGS-ACF and P/S solution to the medium and mix well. Since several components are light-labile, the medium should not be exposed to light for extended periods. We do not recommend warming medium in a 37°C water bath prior to use. When stored in the dark at 4°C, the reconstituted medium is stable for one month.

Caution: If handled improperly, some components of the medium may present a health hazard. Take appropriate precautions when handling it, including the wearing of protective clothing and eyewear. Dispose of properly.