



**HematoGro Medium
(HemGM)**
Catalog #5501

Product Description

HematoGro Medium (HemGM), when used with HematoGro Supplement (HemGS, Cat #5552) 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 bovine 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 or cytokines. Supplementation with additional factors may be used to support the proliferation or differentiation of select cell subpopulations.

Components

HemGM consists of 500 ml of basal medium, 5 ml of HematoGro Supplement (HemGS; Cat #5552) and 5 ml of penicillin/streptomycin solution (P/S; Cat. #0503). *Note: HemGS and P/S are not pre-mixed in HemGM; they must be added separately to make the complete HemGM.*

Product Use

HemGM 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 and P/S solution at -20°C. Protect from light.

Shipping

Basal medium: room temperature. Supplements: dry ice.

Instructions for Use

Thaw HemGS 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 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.