Cascade Biologics™
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Medium 106

Catalog Number: M-106-500
500 ml

Instructions for storage and use

Product Description

Medium 106 is a sterile, liquid tissue culture medium intended for use as one component in a complete culture environment for the growth of normal human dermal fibroblasts. Medium 106 is a basal culture medium containing essential and non-essential amino acids, vitamins, other organic compounds, trace minerals, and inorganic salts. Medium 106 does not contain antibiotics, antimycotics, hormones, growth factors, or proteins. This medium is HEPES and bicarbonate buffered and is designed for use in an incubator with an atmosphere of 5% CO_2/95% air. To support the plating and long term proliferation of human dermal fibroblasts, Medium 106 must be supplemented with Low Serum Growth Supplement (LSGS, cat. # S-003-10), or Low Serum Growth Supplement Kit (LSGS Kit, cat. # S-003-K).

Intended Use

Medium 106 is intended for use in the routine culture of normal human dermal fibroblasts. When supplemented with LSGS or LSGS Kit, Medium 106 will support the plating and proliferation of fibroblasts at densities between 1 x 10^2 cells/cm^2 and 1 x 10^5 cells/cm^2. Additional applications for use may include primary isolation of fibroblasts from dermal tissue. ***This product is for research use only. Not for use in animals, humans, or diagnostic procedures.***

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

Storage and Stability

Medium 106 is stored at 4° C in our facility and is shipped at ambient temperature. Upon receipt, Medium 106 should be stored at 4° C and should not be frozen. **Protect from light.** Several components of this tissue culture medium are light-labile, and we recommend that the medium not be exposed to light for lengthy periods of time. If the medium is warmed prior to use, do not exceed 37° C. When stored in the dark at 4° C, the product is stable until the expiration date on the label.

Please use the instructions on page 2 to prepare the medium for use.

Preparation of Supplemented Medium 106 with LSGS

Note: For information on LSGS (cat. # S-003-10), please refer to the LSGS product sheet.

1. Thaw one bottle of LSGS. Take one bottle of medium from cold storage. Make sure that the caps of the vessels are tight.
2. Gently swirl the bottle of supplement. Avoid splashing the supplement into the cap of the bottle or causing the supplement to foam.
3. Wipe the outside of the containers with a disinfecting solution such as 70% ethanol or isopropanol.
4. Using sterile technique in a laminar flow culture hood, transfer the entire contents of the bottle of supplement to the bottle of medium.
5. Tightly cap the bottle of supplemented medium and swirl the contents to ensure a homogeneous solution. Avoid causing the medium to foam.

Storage and Stability of Supplemented Medium 106

Once Medium 106 has been supplemented with LSGS, the supplemented medium should be stored in the dark at 4° C and should not be frozen. When stored in the dark at 4° C, the supplemented medium is stable for 1 month.

Preparation of Supplemented Medium 106 with LSGS Kit

Note: For information on LSGS Kit (cat. # S-003-K), please refer to the LSGS Kit product sheet.

1. Thaw the frozen components of the LSGS Kit. Take one bottle of medium from cold storage. Make sure that the caps of the vessels are tight.
2. Gently swirl each component of the LSGS Kit. Avoid splashing the components into the caps of the bottles or causing any of the components to foam.
3. Wipe the outside of the containers with a disinfecting solution such as 70% ethanol or isopropanol.
4. Using sterile technique in a laminar flow culture hood, transfer the desired amount of each component of the LSGS Kit to the bottle of medium in the following order: fetal bovine serum; recombinant human basic fibroblast growth factor/heparin; hydrocortisone, recombinant human epidermal growth factor. Note: addition of less than the entire amount of any component may affect the performance of the supplemented medium.
5. If antibiotics/antimycotics are desired, add the antibiotic/antimycotic solution included in LSGS Kit using the same technique as above.
6. Tightly cap the bottle of supplemented medium and swirl the contents to ensure a homogeneous solution. Avoid causing the medium to foam.

Storage and Stability of Supplemented Medium 106

Once Medium 106 has been supplemented with LSGS Kit, the supplemented medium should be stored in the dark at 4° C and should not be frozen. When stored in the dark at 4° C, the supplemented medium is stable for 1 month.