Myocyte media

PromoCell®

Instruction manual

Product	Size	Catalog number
Myocyte Growth Medium (Ready-to-use) – includes Basal Medium and SupplementMix	500 ml	C-22070
Myocyte Growth Medium Kit – includes Basal Medium and SupplementPack	500 ml	C-22170
Myocyte Basal Medium	500 ml	C-22270
Myocyte Basal Medium, phenol red-free	500 ml	C-22275
Myocyte Growth Medium SupplementMix	for 500 ml	C-39275
Myocyte Growth Medium SupplementPack	for 500 ml	C-39270

Recommended for

- Human Cardiac Myocytes (HCM)

Product description

Our Myocyte Growth Medium has been developed for the *in vitro* cultivation of primary cardiac myocytes. The medium is optimized for primary human cells, but can also be used for primary porcine and rat myocytes.

PromoCell Myocyte Growth Medium is available as medium (Ready-to-use) or as Medium Kit. The medium (Ready-to-use) consists of a 500 ml bottle of basal medium and one vial of SupplementMix. The Medium Kit consists of a 500 ml bottle of basal medium and the SupplementPack (a set of individual vials with pre-measured supplements) allowing the user full control over the media formulation. Adding the SupplementMix or the SupplementPack to the basal medium results in the complete Growth Medium.

Basal medium (with or without phenol red) as well as the SupplementMix and SupplementPack can also be purchased separately.

Supplementation details

Our Myocyte Growth Medium contains all the growth factors and supplements necessary for the optimal growth of human cardiac myocytes. Myocyte Growth Medium contains Fetal Calf Serum, basic Fibroblast Growth Factor, Epidermal Growth Factor, and Insulin (for details see below table on page 2). The Myocyte Growth Medium does not contain antibiotics or antimycotics and is formulated for use in an incubator with an atmosphere of 5% CO_2.

Preparation of the supplemented medium for use

Thaw the SupplementMix or SupplementPack at 15–25°C. Aseptically mix the supplement solutions by carefully pipetting up and down. Then, transfer the entire content of each supplement to the basal medium. Close the bottle and swirl gently until a homogenous mixture is formed.

Storage and stability

Store the basal medium at 4–8°C in the dark and the SupplementMix or SupplementPack at -20°C immediately after arrival. Do not freeze the basal medium. If stored properly, the products are stable until the expiry date stated on the label. After the supplements are added to the basal medium, store at 4–8°C and use within 6 weeks. Do not freeze the complete medium.

For use, pre-warm only an aliquot of the complete medium to 15–25°C and keep the remaining medium refrigerated at 4–8°C.

Quality control

All lots of PromoCell Myocyte Growth Medium are subjected to comprehensive quality control tests using primary human cardiac myocytes. Each lot is checked for growth promoting activity, adherence rate, and typical morphology of the tested myocytes. Approved in-house lots of media are used as a reference.

In addition, all lots of media have been tested for the absence of microbial contaminants (fungi and bacteria).

Intended use

The products are for *in vitro* use only and not for diagnostic or therapeutic procedures. For safety precautions please see appropriate MSDS.

Note: Due to their low serum content or the absence of serum, PromoCell media are not suitable for trypsin neutralization (e.g. when splitting the cells). Instead we recommend using our DetachKit (C-41200, C-41210, C-41220), which contains HEPES BSS, Trypsin/EDTA and Trypsin Neutralizing Solution.

Final supplement concentrations (after addition to the medium)	Myocyte Growth Medium
Fetal Calf Serum	0.05 ml/ml
Epidermal Growth Factor (recombinant human)	0.5 ng/ml
Basic Fibroblast Growth Factor (recombinant human)	2 ng/ml
Insulin (recombinant human)	5 µg/ml

If you require special media modifications, we offer a custom media service starting at 10 bottles per order.
Contact us at info@promocell.com to find out more.

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