

# MyoCult™ Medium (Human)

## For Culture of Human Skeletal Muscle Progenitor Cells (Myoblasts)

Catalog #05960

500 mL



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## Product Description

MyoCult™ Medium (Human) products are for the culture of human skeletal muscle progenitor cells (myoblasts). Complete MyoCult™ Medium (Basal Medium + 5X Supplement) is serum-containing and has been optimized for the expansion of human myogenic progenitor cells in vitro.

## Product Information

The following components are sold as part of the MyoCult™ Medium kit (Catalog #05960) and are not available for individual sale.

COMPONENT NAME	COMPONENT #	SIZE	STORAGE	SHELF LIFE
MyoCult™ Basal Medium (Human)	05961	400 mL	Store at 2 - 8°C.	Stable for 12 months from date of manufacture (MFG) on label.
MyoCult™ 5X Supplement (Human)	05962	100 mL	Store at -20°C.	Stable until expiry date (EXP) on label.

## Preparation of Complete MyoCult™ Medium (Human)

Use sterile techniques to prepare complete MyoCult™ Medium (Basal Medium + 5X Supplement). The following example is for preparing 500 mL of complete medium. If preparing other volumes, adjust accordingly.

1. Thaw MyoCult™ 5X Supplement at room temperature (15 - 25°C) or at 2 - 8°C overnight. Mix thoroughly.  
NOTE: Once thawed, use immediately or aliquot and store at -20°C. Do not exceed expiry date as indicated on the label. After thawing the aliquots, use immediately. Do not re-freeze.
2. Add 100 mL of 5X Supplement to 400 mL of Basal Medium. Mix thoroughly.  
NOTE: If not used immediately, store complete MyoCult™ Medium at 2 - 8°C for up to 1 month. Do not exceed the shelf life of the individual components.

## Directions for Use

Please read the entire protocol before proceeding.

The following protocol is for the expansion of human myogenic progenitor cells in a T-75 cm<sup>2</sup> flask. If using alternative cultureware, adjust volumes accordingly.

1. Resuspend  $5 \times 10^5$  human myogenic progenitor cells in 12 mL of complete MyoCult™ Medium and add to a T-75 cm<sup>2</sup> flask.
2. Incubate at 37°C and 5% CO<sub>2</sub> until cells are 50 - 60% confluent. This typically takes 2 - 4 days.  
NOTE: It is important that cells do not become over-confluent, as this will induce premature differentiation and cell cycle exit.
3. Passage cells as follows:
  - a. Wash cells once with 10 mL of D-PBS Without Ca++ and Mg++ (Catalog #37350).
  - b. Add 4 mL of Trypsin-EDTA (0.25%; Catalog #07901) and incubate at 37°C for 5 minutes. Tap the flask to detach cells.
  - c. Add 4 mL of complete MyoCult™ Medium and transfer cells to a 15 mL tube.
  - d. Centrifuge the tube at  $300 \times g$  for 10 minutes. Remove and discard the supernatant.
  - e. Resuspend the cell pellet in complete MyoCult™ Medium.
  - f. Count and plate cells at  $5 \times 10^5$  cells/T-75 cm<sup>2</sup> flask or at a density of  $5 - 8 \times 10^3$  cells/cm<sup>2</sup> in cultureware of your choice.
4. Repeat steps 2 and 3 as required.

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