

# TheraPEAK® MSCGM™ Mesenchymal Stem Cell Growth Medium



## Easy to Use GMP Medium for hMSC Culture

Driven by new technologies and product platforms, scientific advancements in the cell therapy arena are being achieved with increasing frequency. Beyond their therapeutic promise, human mesenchymal stem cells (hMSCs) have become a model system widely used in stem cell research today. Their consistent expansion and viability are crucial to their therapeutic potential. Due to their ability to create an adaptive or innate immune response via interactions with lymphocytes, hMSC are becoming more ever present in clinical settings. With the increased concern for biological safety, lot-to-lot consistency and prequalification of FBS sources, serum-free growth medium has become a key element of stem cell culture.

As one of the largest cell therapy contract manufacturers in the world, Lonza recognizes the need for superior, reproducible, and reliable results during your cell culture process. TheraPEAK® MSCGM™ Medium is an easy to use, high performing product produced in an FDA registered manufacturing site with an ISO 13485 certified quality management system. TheraPEAK® MSCGM™ Medium maintains high viability of undifferentiated MSCs with rapid population doublings even in culture initiation.

### Features and Benefits

- Serum-free and regulatory friendly
- No need for attachment matrix to plate cells
- Optimized for multiple expansion of all types of hMSCs
- Supports multi-lineage differentiation
- Provided in BulletKit® Format, includes basal medium and supplement
- Custom packaging available to meet scale up needs
- Can be used in small or large scale therapeutic applications

# Optimal Performance of Your hMSCs

## TheraPEAK® MSCGM™ Medium Expansion

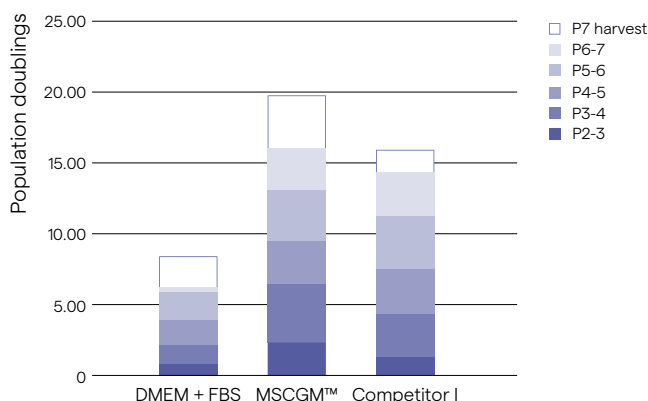


Figure 1

hMSCs grown in TheraPEAK® MSCGM™ Medium exhibit better expansion over cells grown in serum-free MSC medium from Competitor I, as well as traditional DMEM with FBS. hMSCs were directly thawed into each respective medium and seeded at a density 2000 cells/cm<sup>2</sup> in T flasks. Cells were fed every 3 days and passaged at 95% confluence.

## Place Your Order or Contact Us for Further Info

### TheraPEAK® MSCGM™ Mesenchymal Stem Cell Growth Medium BulletKit®

Cat. No.	Description	Size
BEBP18-936	TheraPEAK® MSCGM™ BulletKit®	1 L

You may as well be interested in our extensive portfolio of high quality, research grade primary stem cells and differentiation media. Contact our support teams or visit [www.lonza.com/stemcells](http://www.lonza.com/stemcells) to learn more.

### Cell characterization in serum-free media conditions

Cell Surface Marker	Positive (flow cytometry)	Negative (flow cytometry)
CD166	+	
CD105	+	
CD29	+	
CD44	+	
CD45		-
CD34		-
CD14		-

Table 1.

Cell surface antigen expression of hMSCs grown in TheraPEAK® MSCGM™ Medium.

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