Making the Medicines of Tomorrow

Lonza
Specialized Modalities

TheraPEAK® MSC-VIVO® Media System



One medium for both 2D stem cell expansion and 3D exosome production

In the dynamic field of regenerative medicine, research programs succeed through quick and efficient adaptation to new data and positive results. As the foundation of these programs, human mesenchymal stem cells (hMSCs) need an optimal cell culture medium to deliver these results.

The TheraPEAK® MSC-VIVO® Media System (Basal Media, 2D Supplement, and 3D Supplement) is capable of both the rapid, high-proliferation expansion of hMSCs in 2D or 3D formats, as well as high-yield production of 3D exosomes. From one basal medium, researchers can now support multiple 2D and 3D programs faster and with exceptional quality.

With higher particle yield, integrity, and superior angiogenic properties, MSC-VIVO® produced exosomes don't just do, they do more.

Features and benefits

- Supports consistency, regulatory compliance, and supply security with xeno-free formulation, ready for GMP use
- Promotes up to almost 2000x increase in hMSC proliferation by day 10 and maintains hMSC expression markers across multiple cell sources
- Supports trilineage differentiation with the use of commercially available adipogenic, osteogenic, or chondrogenic supplements
- Helps enable high-yield exosome production with particles demonstrating up to 2x more junction and segment formation than competitor media
- Single hMSC media system for the needs of multiple research programs – stock less media, reduce exchanges, deliver better data

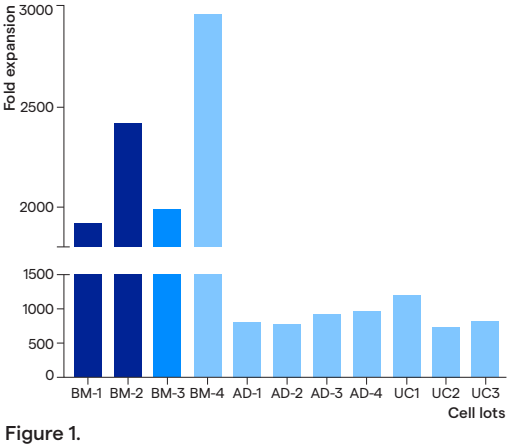


Figure 1.
2D expansion performance of TheraPEAK® MSC-VIVO® across different lots of hMSCs derived from bone marrow, umbilical cord, and adipose tissue, demonstrating robust growth.

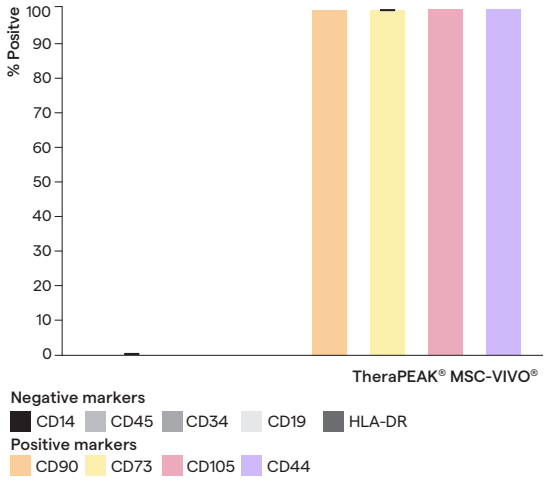


Figure 2.
Presence of positive and absence of negative ISCT-designated marker expression in bone marrow derived hMSCs cultured in TheraPEAK® MSC-VIVO®. Measurement after extended culture demonstrates that the media formulation preserves the stemness of hMSCs..

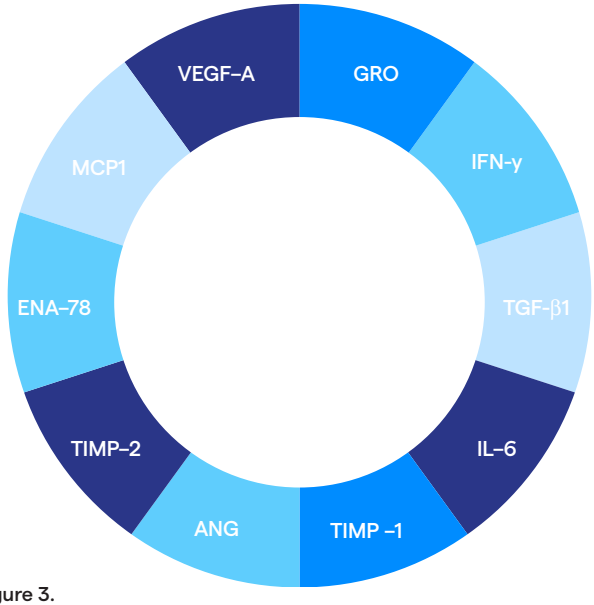


Figure 3.
Secretome profile of hMSCs cultured in TheraPEAK® MSC-VIVO®. Contains multiple factors promoting endothelial cell migration, proliferation, survival, tube formation, wound healing, and tissue repair.

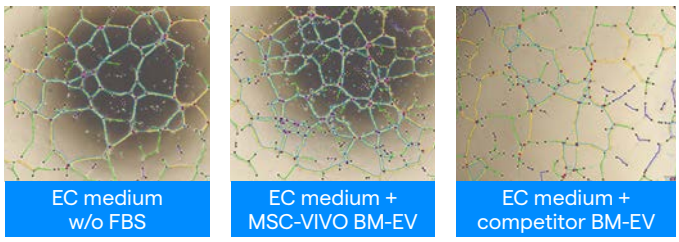


Figure 4.
TheraPEAK® MSC-VIVO® supports production of exosomes demonstrating superior angiogenesis (as measured by branching characteristics) versus competitor media.

Product information

Catalog no.	Description	Size and packaging
BP18-972	TheraPEAK® MSC-VIVO® for 2D applications (includes Basal Media and Expansion Supplement)	1 L bottle (medium) and 5 mL bottle (supplement)
BP18-973	TheraPEAK® MSC-VIVO® for 3D applications (includes Basal Media and Exosome Supplement)	1 L bottle (medium) and 5 mL bottle (supplement)

Contact us

North America
Customer Service: +1 800 638 8174 (toll free)
order.us@lonza.com
Scientific Support: +1 800 521 0390 (toll free)
scientific.support@lonza.com

Europe
Customer Service: +32 87 321 611
order.europe@lonza.com
Scientific Support: +49 221 99199 400
scientific.support.eu@lonza.com

International
Contact your local Lonza distributor
Customer Service: +1 301 898 7025
scientific.support@lonza.com

Lonza Walkersville, Inc. – Walkersville, MD 21793

Learn more.

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