SnapShot: Exercise Metabolism

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Expanding and differentiating skeletal muscle progenitor cells (myoblasts) are common practices during the study of myogenesis, disease modeling, and co-culture systems. MyoCult[™] media are specifically formulated to expand, maintain, and differentiate primary human myoblasts. These specialized media are designed to provide researchers with standardized workflows and culture systems to minimize cell culture variability and increase experimental reproducibility.

EXPAND

The MyoCult[™] Expansion Kit (Catalog #05960) is formulated for the expansion and maintenance of human myoblasts. The MyoCult[™] expansion medium provided in this kit suppresses the expression of key myogenic differentiation genes while maintaining the expression of myogenic progenitor markers. Myoblasts expanded in MyoCult[™] expansion medium are fully compatible with the MyoCult[™] Differentiation Kit (Catalog #05965).

DIFFERENTIATE

The MyoCult[™] Differentiation Kit (Catalog #05965) is formulated to differentiate human myoblasts into myotubes. This kit also includes a cell attachment substrate to support optimal adherence to culture vessels and maintain myotube morphology for downstream assays. Myotubes generated from the MyoCult[™] Differentiation Kit can serve as a robust two-dimensional in vitro myofiber model for myogenic studies.



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