MantaReady™

3D Skeletal Muscle Tissue Media

Proprietary Medium Provides Longer Culture Times and Stronger Contractile Force

curi bio

Advance Your 3D Skeletal Muscle Experiments

Serum-free MantaReady™ Medium Kits Designed for All Stages of Muscle Development and Maturation

3D Primary Skeletal Muscle Line

- **Differentiation Kit** (Days 0-7)
- **Maintenance Kit** (Day 7+)

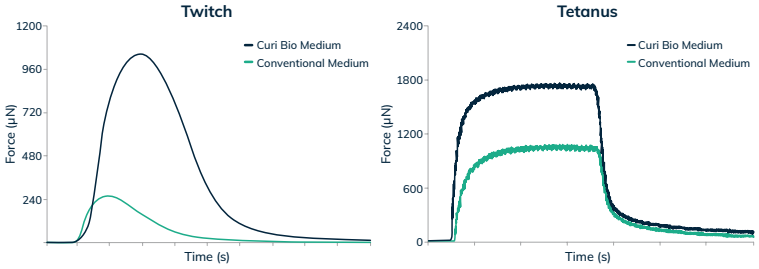
3D iPSC Skeletal Muscle Line

- **Differentiation Kit** (Day 0-10)
- **Maintenance Kit** (Day 10+)

Skeletal Muscle Medium Key Characteristics

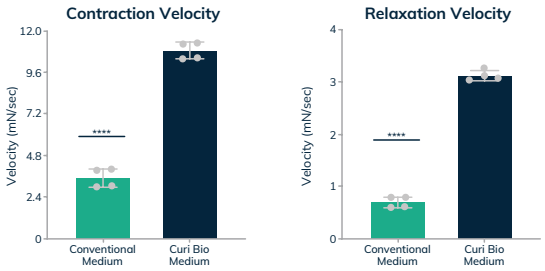
Stronger Tissues

Engineered muscle tissues (EMTs) develop stronger contractile forces when cultured in Curi Bio's medium compared to conventional medium (DMEM high glucose, 2% horse serum, IGF-1) described in literature (over a thousand citations) to promote *in vitro* myoblast differentiation and fusion. Twitch and tetanic forces are 4-5 times stronger in primary and iPSC-derived muscle constructs.



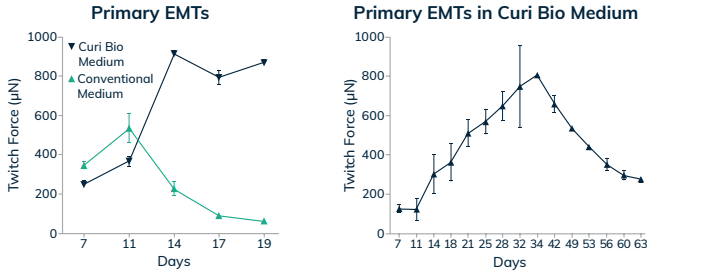
Faster Kinetics

EMTs display faster contraction and relaxation times, suggesting improved health and performance of muscle constructs compared to tissues cultured in conventional medium. Delayed contractile kinetics may indicate impaired function in normal and diseased tissues.



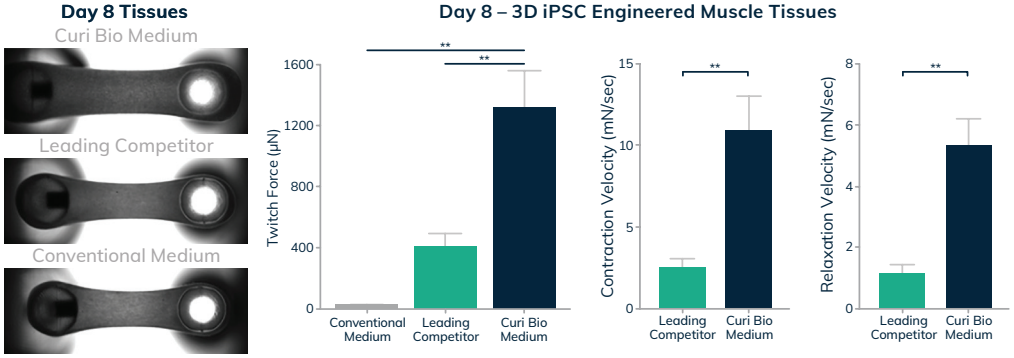
Greater Longevity

EMTs are stronger and remain contractile for over 63 days in culture, allowing for broad experimental timescales. Test your therapeutic over months or discover disease phenotypes that may present during late stages of *in vitro* development.



Unmatched Performance

Curi Bio's proprietary media minimizes excessive passive tension to promote ideal compaction and homeostasis in 3D muscle constructs during development to produce tissues with robust contractile function.



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