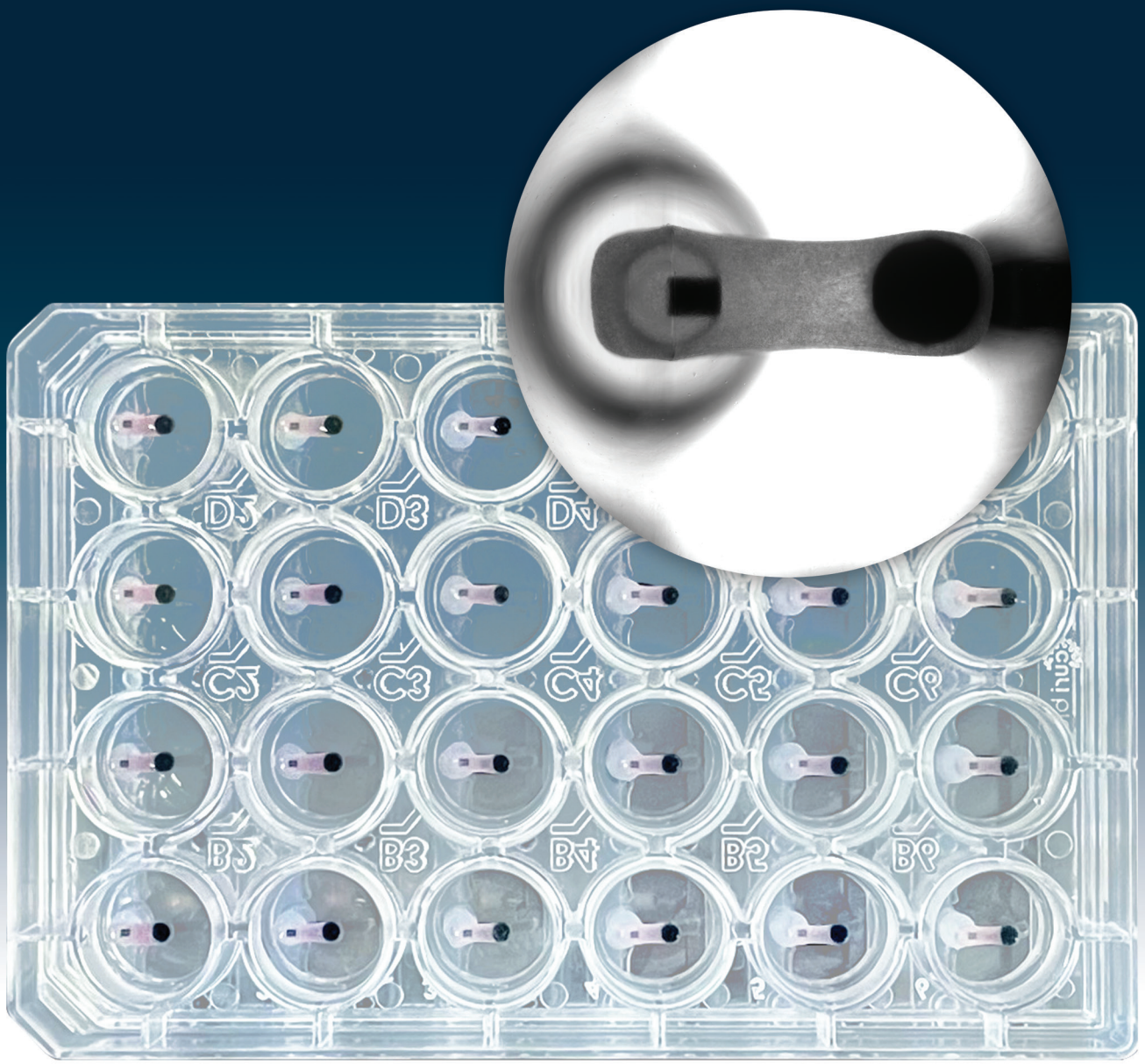
Mantarray™ Mini Plate Kit



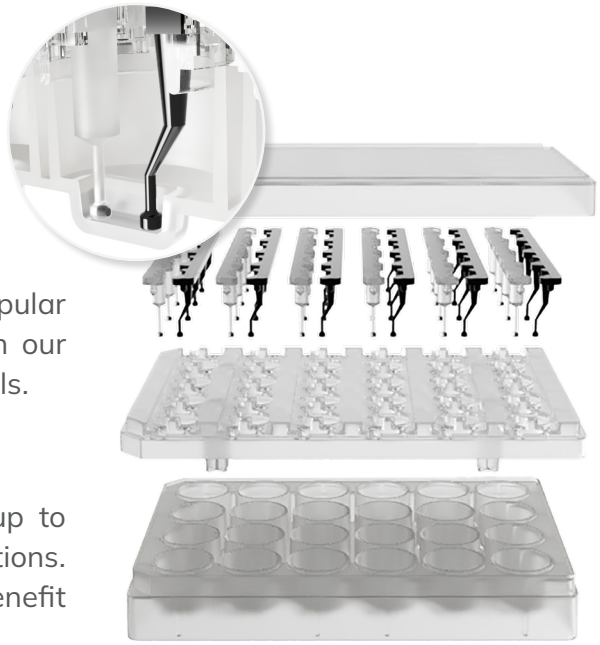
Advancing the Scalable Creation
of 3D Engineered Muscle Tissues

curi bio

Fewer Cells. More Data.

Powered by Miniaturization

Harness the benefits of miniaturization to create smaller, denser tissues with up to 50% fewer cells.

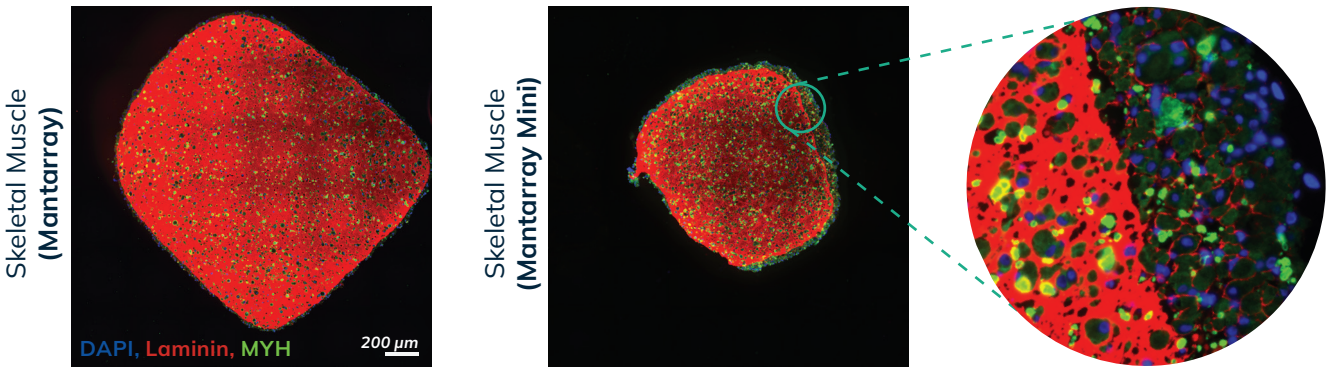


High Casting Success Rate

The Mantarray™ Minis are based on the successful recipe of our popular Mantarray Casting Process. Attain >95% casting success rate with our specialized casting consumables and straightforward casting protocols.

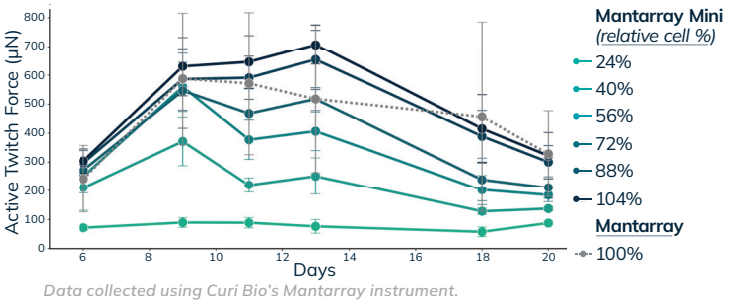
Improved Cell Density

The Mantarray Mini Casting plate reduces the tissue volume by up to 60%, effectively condensing your cells and promoting cell-cell interactions. Optimize your casting protocol to your preferred cell numbers and benefit from more physiologically relevant cell density.



High-quality Contractile Function

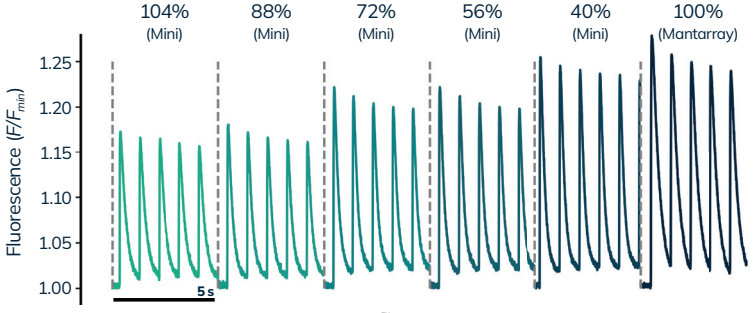
The Mantarray Mini preserves the data quality. When tested on Curi Bio's Mantarray contractility instrument, the Mini Skeletal Muscle tissues display force contractility proportional to the cell density. The exhibited forces can match or even outperform the force generated by the classic, full-sized Mantarray tissues.



Data collected using Curi Bio's Mantarray instrument.

Robust Electrophysiology

The electrophysiological signature of the Mini Cardiac tissues, as captured by Curi Bio's Nautilai platform, consistently mirrors the validated data of full-sized tissues across all cell densities, ensuring integrity cross-platform integrity.



Data collected using Curi Bio's Nautilai™ instrument.

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