

Curi Bio

3D Cardiac Muscle Tissue Media



Promote Mature Cardiac
Phenotypes Over Months in Culture



Next-Generation 3D Cardiac Media

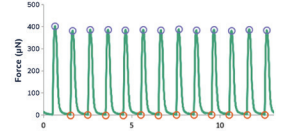
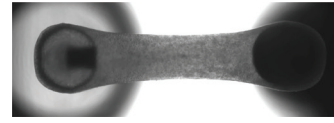
Complete Medium Kits Designed for 3D Cardiac Muscle Development and Maturation

Growth Media Kits

- Days 0-4
- Contains Serum

Maintenance Media Kits

- Days 4+
- Serum-free

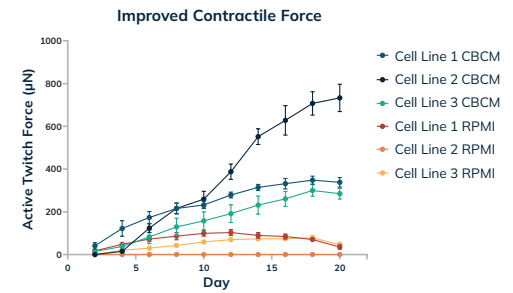


Physiological Metabolism

Curi Bio Cardiac Medium is formulated to replicate the in vivo extracellular environment to model physiological cardiac development. Plasma-like metabolites essential to cardiac function improve contractile force, kinetics, and responses to compounds to provide a complete medium for 3D human engineered heart tissue (EHT) experiments.

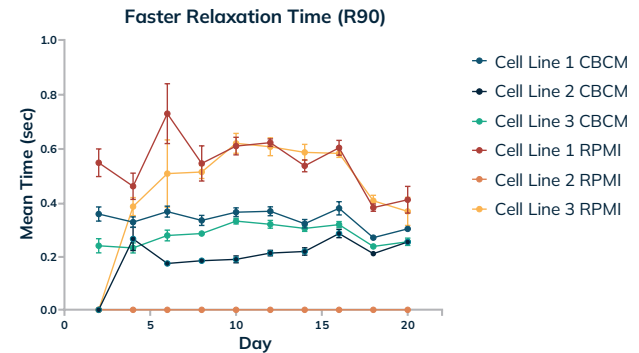
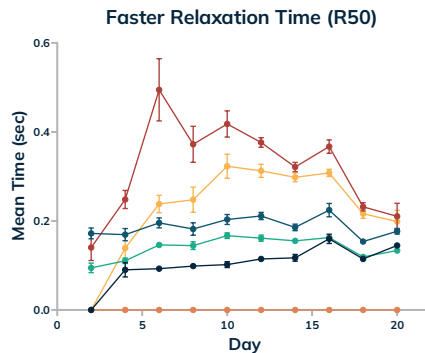
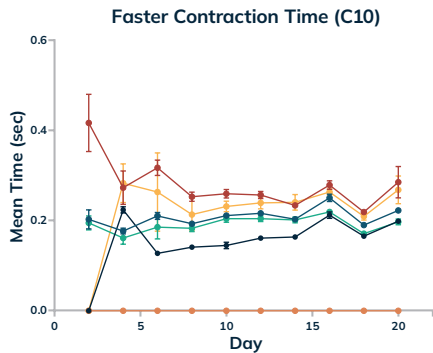
Stronger Tissues

Human EHTs show robust beating and develop stronger contractile forces in Curi Bio Cardiac Medium (CBCM) compared to conventional medium (RPMI, B27 plus insulin) in 3D culture. Results are reproducible across different cell lines, including an engineered patient line (cell line 1) and popular commercial iPSC-derived cardiomyocytes (cell lines 2 and 3).



Improved Kinetics

Engineered heart tissues show improved contractility with faster contraction and relaxation times, suggesting enhanced calcium handling and regulation. Slower kinetics may indicate compromised development of contractile machinery.



Reliable Drug Responses

Contractile response to compound exposure is more accurate in EHTs cultured in Curi Bio medium compared to RPMI. Contractile force increases dramatically when EHTs are exposed to external calcium and Isoproterenol, two positive inotropes in heart muscle.

