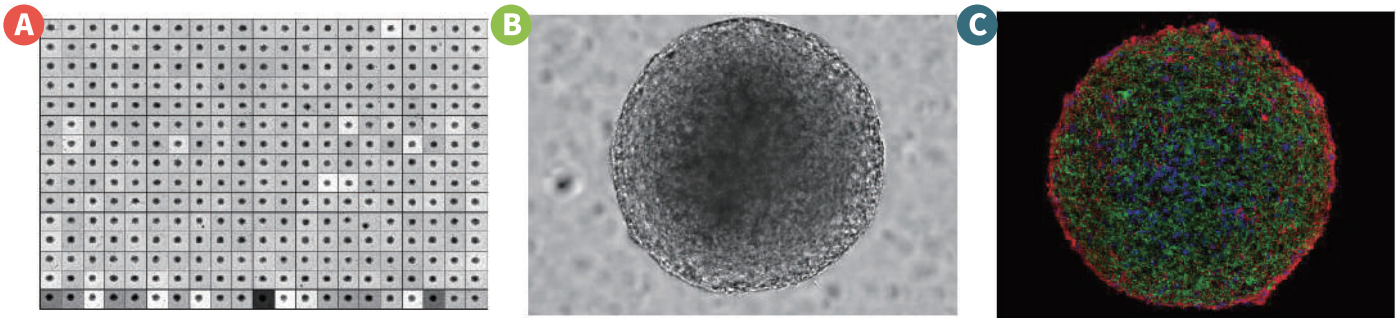


microOrgan Platform System

StemoniX는 Human iPSC-derived cell을 이용하여 만든 uniformed size로 제공되는 high-throughput screening platform입니다. 각 제품 모두 96 well, 384 well에 맞게 full matured cell로 제공되며, 제품 수령 후 바로 사용할 수 있습니다. StemoniX를 이용하여 개발 중인 약물을 평가하거나, HCS 이미지 장비를 이용한 3D 분석을 진행할 수 있습니다.

- 96 well & 384 well 가능
- iPSC 유래
- 충분한 matured organ으로 공급

microBrain® 3D Assay Ready



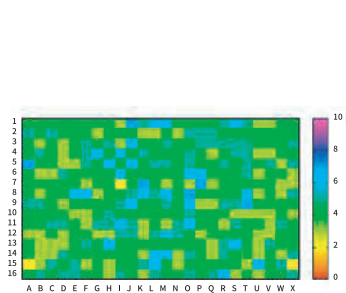
A. Brightfield microscopy of microBrain 384-well plate
 B. A single neural spheroid under brightfield microscopy
 C. Z-plane cross-sectional imaging of a single microBrain 3D spheroid.

- Neurons (MAP-2; green), astrocytes (GFAP; red), nuclei (DAPI; blue)

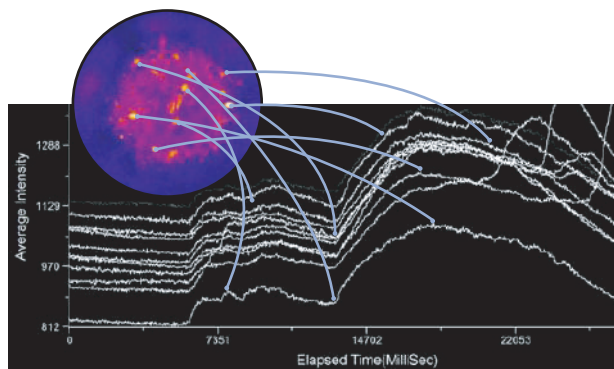
- Uniformed Cell Size (500um)-실험의 일관성
- maturedOrgan 6~8주차 공급-Key marker 발현
- Neuron: Astrocyte 비율 50:50
- Glutamatergic L: GABAergic L 발현비율 80:20



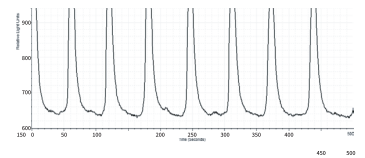
Product Name	Catalog#
microBrain 3D Assay Ready 96-Well Plate	BSARX-AA-0096
microBrain 3D Assay Ready 384-Well Plate	BSARX-AA-0384
Neural Progenitor Cells	CNCPX-0002-001



Consistent performance demonstrated by a heat map of FLIPR activity across a 384-well plate

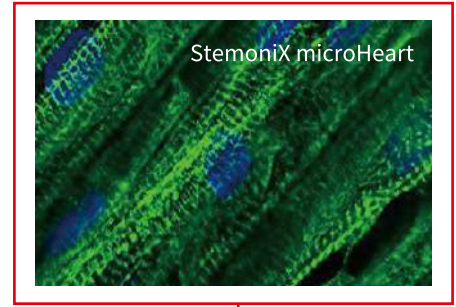
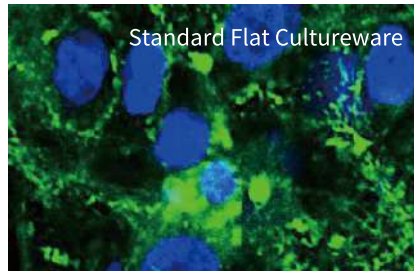
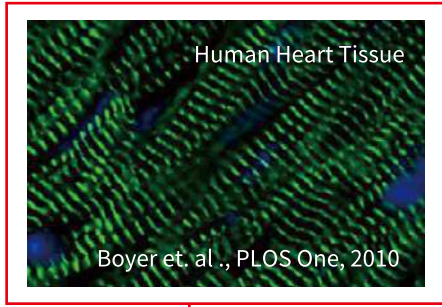


Synchronized calcium oscillations across a microBrain spheroid



Uniform spontaneous calcium oscillations measured on FLIPR

microHeart® Assay Ready & Cell Ready

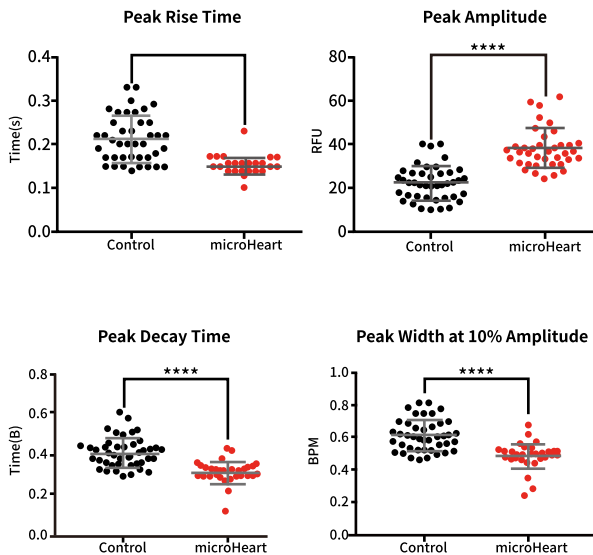


StemoniX® microHeart® platform provides a structured environment for human iPSC-derived cardiac cells to passively align into a physiologically relevant structure to closely represent human heart tissue.

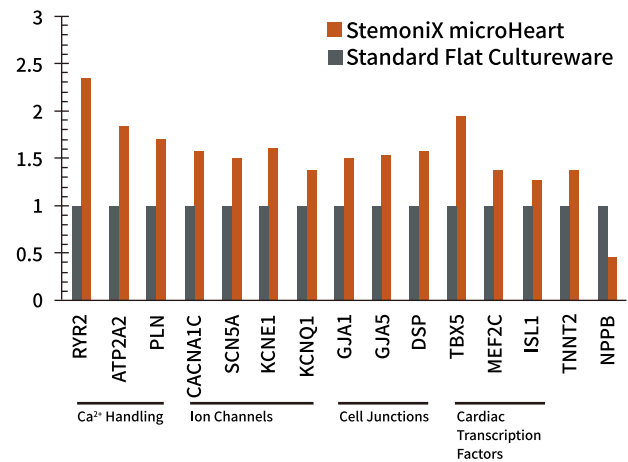
- Key cardiac physiology genes 발현
- Calcium handling 용이
- Aligned sarcomeres

Product Name	Catalog #
microHeart Assay Ready 96-Well Plate	MHARX-AA-0096
microHeart Assay Ready 384-Well Plate	MHARX-AA-0384
microHeart Cell Ready 96-Well Plate	MHCRX-AA-0096
microHeart Cell Ready 384-Well Plate	MHCRX-AA-0384

*microHeart Cell Ready 제품은 patterned Plate만 제공 제품



Measurements made with a Molecular Devices FLIPR Tetra® High-Throughput Cellular Screening System



Stemonix's microOrgan Platform System Applications

- Drug Discovery & Screening

:FDA Approved libraries 등을 이용한 약물 Screening 연구.

- Safety pharmacology & Toxicology

:Neurotoxicity 및 심장독성

- Disease Modeling

:Neuroinflammation, Neuron의 function과 development에서 타겟약물연구

- Platform 구축 가능

:HCS 장비, FLIPR장비, MEA 장비 등을 활용한 platform구축

