

FLEXcyte 96

True Cardiac Contractility
and Higher Throughput combined



*Enabling
innovation*

FLEXcyte 96

True contractility.

Start your next generation assay

The FLEXcyte 96 technology has been designed for higher throughput *in vitro* cardiac contractility recordings under physiological mechanical conditions.

Gain from a format that goes beyond standard 2D monolayers of iPSC-CMs. Your contractility data will translate better and more efficiently to human physiology.



Bringing physiological relevance



and throughput together.

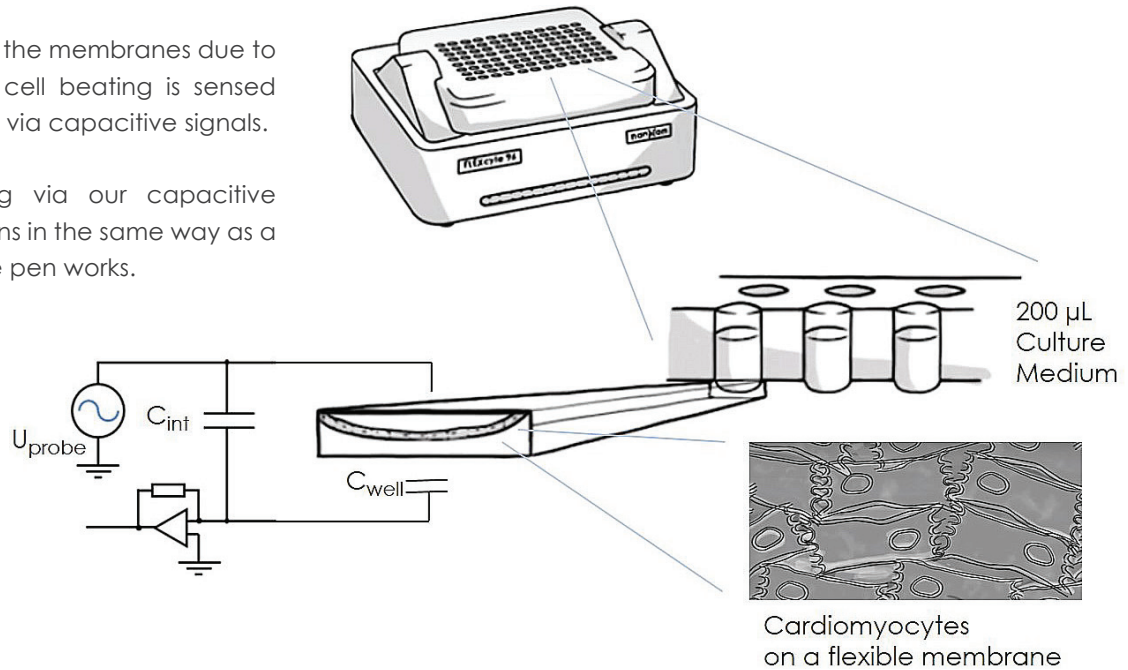
Welcome to pushing the boundaries

- Physiological mechanical conditions for your iPSC-CMs
- Pro-maturation environment
- 96-well standard screening format
- Benchtop system with incubation lid
- Cost- and time-efficiency despite sophistication of the assay
- Straightforward data analysis
- Designed for research, quality control (QC) or drug screening



Movement of the membranes due to synchronized cell beating is sensed by electrodes via capacitive signals.

Signal sensing via our capacitive sensor happens in the same way as a mobile phone pen works.



Contractile force

FLEXcyte 96 is available as an add-on for the well-established CardioExcyte 96

Cells are cultured in a 96-well format on ultra-thin silicone membranes, forming a biohybrid material with physiologically relevant mechanical properties. While being deflected by the weight of the culture medium, rhythmic contraction of the cardiomyocytes lifts the membranes upwards.

- Physiological and label-free environment
- Real-time cardiac contractility measurements
- Accurate quantification of force-frequency relation
- Detection of inotropic and chronotropic effects
- Compatible with CardioExcyte 96 technology

Your Software Cockpit

Powerful contractility analysis

CardioControl and DataControl

Data acquisition and analysis the easy way

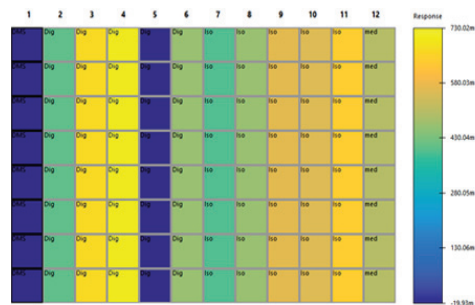
Great tools

- Z-prime calculation
- Heat maps

Great ease-of-use

- Online Analysis
- Automated arrhythmia detection
- Calculation of concentration response curves
- Automated pdf report generation

Heat maps



Get a quick overview - e.g. response (%) to compounds across 96 wells.

Maximizing your Data Output

Your goals and everyday challenges

We maximize data output at every stage

You'll never walk alone: Benefit from our service plans – you will receive unsurpassed application and technical support and we ensure that you will have no downtime of the system.

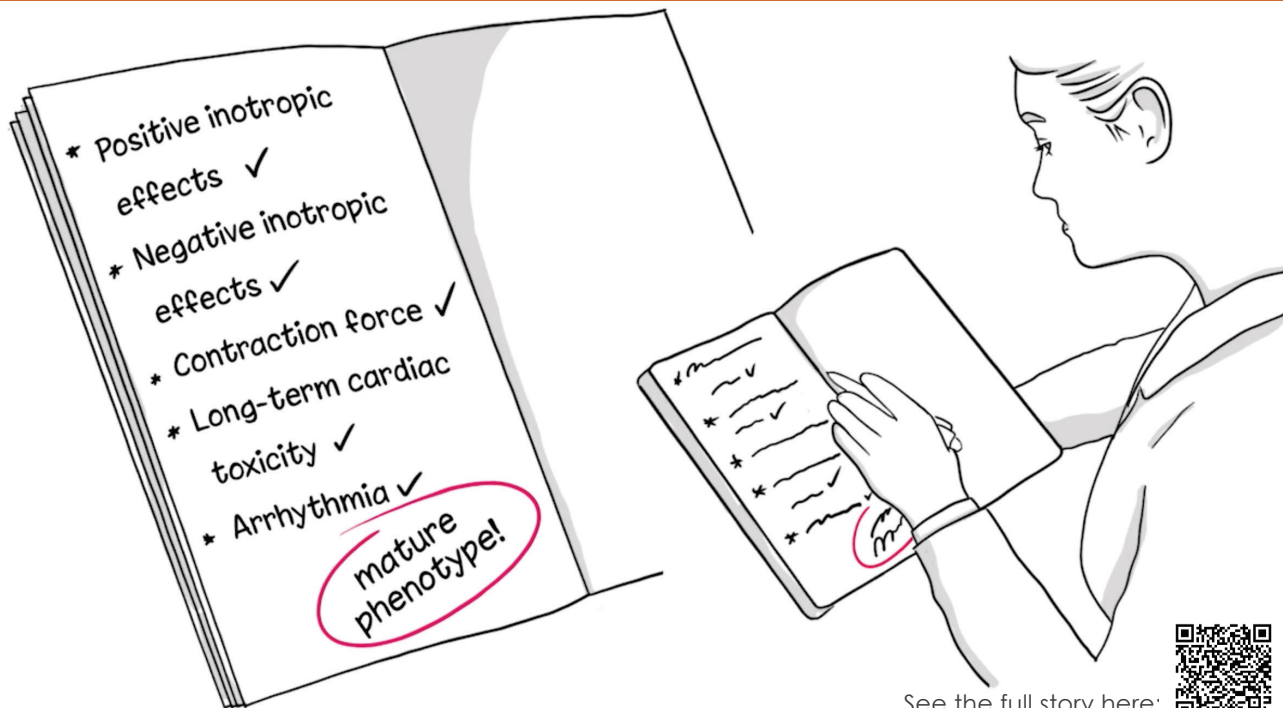
Benefit from our established cell handling protocols that we developed with cell suppliers.

Choose between two service plans: Premium and Basic. And get your hands – on training for free for new users.

Be like Laura!

"Do you also want more meaningful and cost efficient data from your iPSC-CM assay?"

You translate research into real outcomes for patients everywhere. With the FLEXcyte 96 technology you get as close as never before to translatability of pharmacological results to human physiology.



See the full story here:





For screening service orders see www.innovitro.de
info@innovitro.de



For FLEXcyte 96 orders see www.nanion.de
info@nanion.de

contact us
now!

*"With the FLEXcyte 96 we are **pushing the boundaries of iPSC-CM screening** by offering a physiological relevant assay in combination with high efficiency."*

Dr. Sonja Stoelzle-Feix, Director Scientific Affairs at Nanion

pushing the boundaries of iPSC-CM assays

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