

TC-3 Bioreactor

Mechanical stimulation for cell culture

The simplest and most versatile mechanical stimulation bioreactor **upgraded!**



Designed to reproduce the mechanical growth conditions of a wide variety of tissues, **now with extended capabilities:**

- Force measurement
- Tension/compression + flow
- Tension/compression + electrical stimulation
- Hydrostatic pressure

Put aside other rigid and hard to use mechanical testing devices and save time and money with the TC-3 system: **the cell culture mechanical stimulation system designed for cell culture.**

A highly customizable mechanical stimulation system

KEY FEATURES

- Upgradable modular system
- Multi-chamber
- Horizontal and vertical working configurations
- A wide variety of chambers and grips available
- Lightweight and compatible with standard incubators
- Compact autoclavable chambers with small volume
- Medium renovation and instrumentation ports available upon request
- Optimized sample visualization

STIMULATION CONDITIONS

Configure your system to obtain a multitude of stimulation conditions.

- **Tension and compression.** Obtain physiological deformation conditions for almost any kind of scaffold.
- **Tension and flow.** Ideal stimulation conditions for tubular scaffolds.
- **Compression and flow.** Use the TC-3 to simulate the deformation conditions in bone scaffolds.
- **Hydrostatic pressure.** Up to 4 bar of hydrostatic pressure stimulation.
- **Electrical stimulation.** Use the electrical stimulation module in combination with the TC-3 to obtain coordinated mechanical and electrical stimulation.



The most adequate stimuli for every kind of tissue with a single device

Tissue	Stimulus						Measure	
	Tension	Compression	Flow	Electrical	Hydrostatic pressure	Air-Liquid interface	Force	Pressure
Skin	X	-	X	-	-	X	X	-
Membranes	X	-	X	X	-	X	X	-
Ligaments	X	-	-	-	-	-	X	-
Tendons	X	-	-	-	-	-	X	-
Bone	-	X	X	-	-	-	X	-
Cartilage	-	X	X	-	X	-	X	X
Blood vessels	X	-	X	-	-	-	X	-
Heart tissue	X	-	X	X	-	-	X	-

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