

# TC-3 Bioreactor

Mechanical stimulation for cell culture

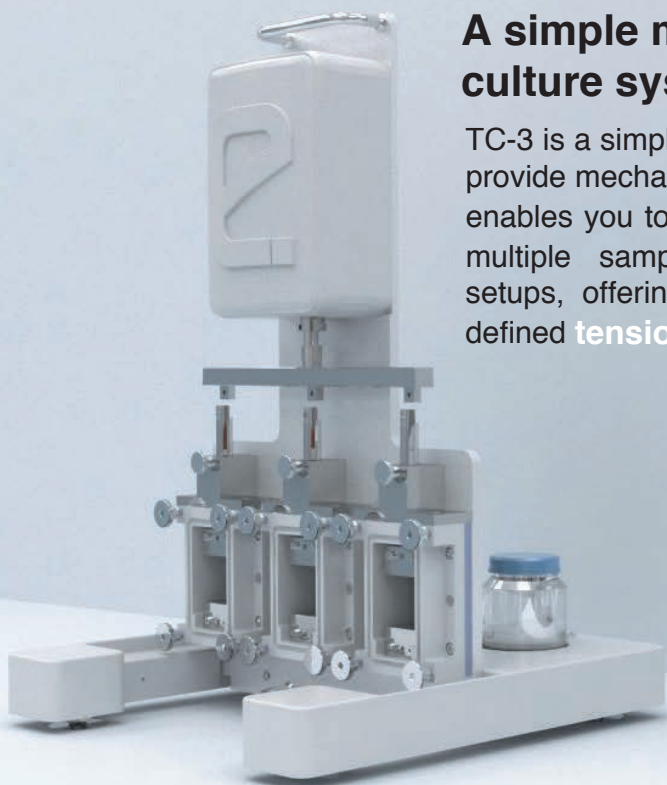
- Versatile chambers adaptable to a variety of tissues
- Multi-chamber system
- Horizontal and vertical configurations
- Optimised visualisation of the samples



## A simple mechanical stimulation cell culture system at last!

TC-3 is a simple and multipurpose cell culture bioreactor designed to provide mechanical stimulation to a variety of samples and tissues. It enables you to work with **horizontally and vertically** arranged multiple samples, with **immersed and air-liquid interface** setups, offering three different sets of grips and imparting user-defined **tension and compression** axial loading.

**Forget about expensive mechanical testing systems that are poorly adapted for cell culture and save money and inconveniences with the TC-3 Bioreactor: the new generic system to mimic the in vivo mechanical environment in cell culture labs.**



TC-3 Bioreactor Vertical Configuration

## ■ VERSATILE CHAMBERS ADAPTABLE TO A VARIETY OF TISSUES

- Three models of grips enable you to secure disc-shaped, sheet-like and rod-like specimens
- Applications: blood vessels, cardiac muscle, bone, cartilage, ligaments, tendons and skin

## ■ MULTI-CHAMBER SYSTEM

- Up to 3 chambers can be utilized simultaneously
- Either shared or independent nutrient environment

## ■ HORIZONTAL AND VERTICAL CONFIGURATIONS

- Horizontal setup suitable to build air-liquid interfaces and work with sheet-like samples
- Vertical setup for immersed testing

## ■ OPTIMISED SAMPLE VISUALISATION

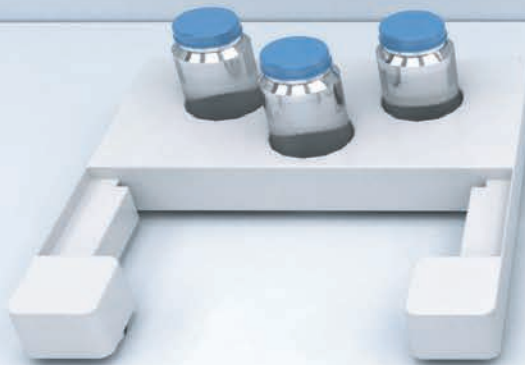
- Optical grade windows at the bottom of the chamber, allow the inspection of samples by microscopy techniques without opening the vessel

## ■ INTELLIGENT DESIGN FOR CELL CULTURE

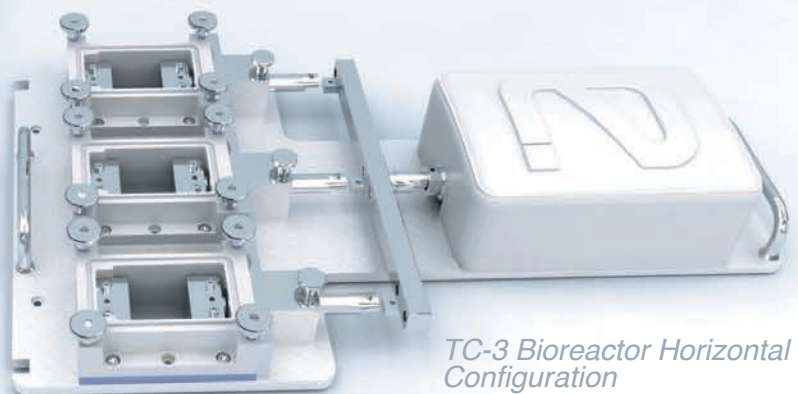
- Lightweight, corrosion resistant and compatible with standard incubators
- Compact autoclavable chambers with small volume
- Perfusion and instrumentation ports available upon request

## ■ MECHANICAL STIMULATION CAPABILITIES

- Dynamic (pulsatile) tension/compression loading
- Load shared among specimens, same displacement for all 3 specimens



*The TC-3 Bioreactor has specially designed compartments in which culture media reservoirs can be stored to facilitate transportation when the system is fully assembled.*



*TC-3 Bioreactor Horizontal Configuration*



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