

CELL-TEK 3000 AS



DUAL MICROSCOPE CHAMBER

CELL  TEK

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MICROSCOPE CHAMBER 3000 AS

Countless studies have shown that embryo development is compromised by not maintaining the required temperature and optimum PH of culture media. This is of utmost importance from the time of egg collection through to blastocyst stage and final embryo transfer.

The new Cell-Tek 3000 AS is a milestone in regard to the multiple tasks of egg pick-up, transfer, and assessment in the same chamber.

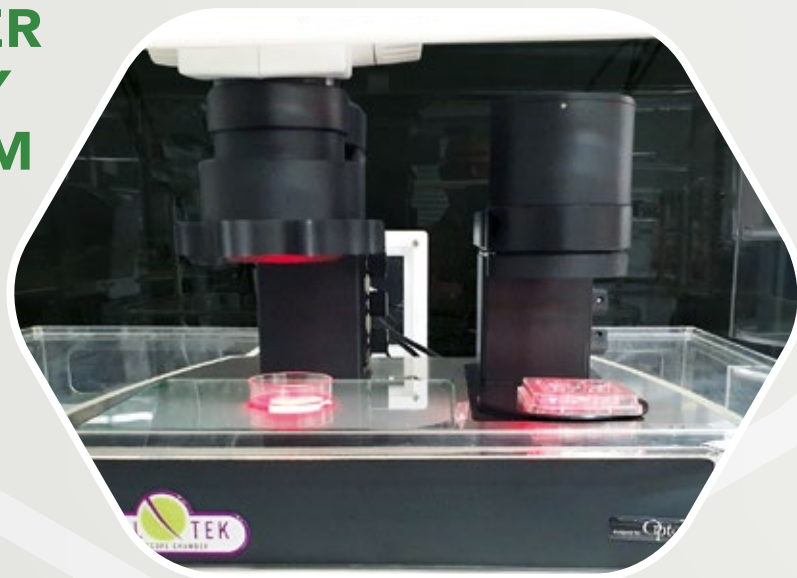


MICROSCOPE CHAMBER WITH REVOLUTIONARY DUAL IMAGING SYSTEM

Cell-Tek 3000 AS provides optimum conditions and the ability to manipulate oocytes and embryos at a comfortable stereo microscope magnification, then move without compromise of temperature, CO₂ or humidity, to a high power optical system for embryo assessment.

The new stereo illumination allows observation of cells and tissue as never before. The integrated dual LEDs allow observation of the embryo by white or IR-light (625 nm) similar to that utilised in "time lapse imaging". The inbuilt mirror for the stereo microscope can be adjusted by motorised control.

The dish can be safely moved from the stereo low power microscope position across the stage within the chamber to the high power imaging microscope without moving from the perfectly controlled environment.



Imaging for the assessment microscope is to a PC screen with split view magnification of 200X and 400X magnification. The sliding stage provides easy manipulation of the dish at this high power.

See our separate brochure for required and optional accessories for Cell-Tek Chambers

CELL-TEK 3000 AS IMAGING COMPONENTS

- Stereo microscope with zoom magnification 12X to 96X for pick-up or transfer procedures
- Viewing via ergonomic tilting eyepieces and simultaneous 10" LCD screen
- Microscope base with dual e-mirror contrast illumination
- Inverted microscope with 200X and 400X magnification for detailed embryo assessment
- High resolution camera with image capture to PC
- Surface Pro PC allows direct imaging from the high magnification microscope by image capture software

A further benefit is that when networking the imaging PC, patient databases can be opened and images inserted directly from the camera of the Cell-Tek 3000 AS.

The resulting benefits are:

- No compromise to the tissue by moving it to another workplace/microscope outside the safe Cell-Tek environment
- Minimises the risk of accidents moving the specimen from workplace to workplace
- Less time used compared to traditional inverted microscopes with manipulators designed for ICSI



WHAT MAKES CELL-TEK CHAMBERS DIFFERENT TO ALL OTHER WORK CHAMBERS?

All surfaces in the chamber are uniformly warmed and accurately heated through air circulation. No independent heated surfaces, minimising calibration and varied surface temperatures.

The air is continually circulated passing through a large HEPA and Carbon filter that achieves clean room environment.

The integrated VOC (volatile organic compound) module using UV Photocatalytic technology removes volatiles down to the low PPB values and provides assurance against negative embryo development due to ambient volatiles.

The convenient fold down touch pad screen gives a simple control and display of all parameters. Temperature-CO₂ gas concentration-Relative Humidity (%RH).

Continual refreshed graphic display of all controlled parameters and the facility to download all values (CSV) to memory stick via USB for quality assurance purposes.

Simple calibration via touch screen for temperature, CO₂ concentration and humidity (RH) against reference instruments.

Continually variable motorised adjustment of eyepiece height for seated or standing observation and 4 programmable pre-set height positions.

Horizontal sliding arm ports to simplify access to microscope and dishes/tubes within the chamber.

PHYSICAL AND TECHNICAL SPECIFICATIONS

BASIC INSTRUMENT	UNITS
Overall instrument width (Foot print)	105 cm
Overall instrument depth (Front to back with fixed display module)	94 cm
Overall instrument depth (Front to back with dropped display module)	75 cm
Overall instrument height on trolley lowest setting	136 cm
Overall instrument height on trolley highest setting	155 cm
Working floor space required with seating (width x depth)	120 x 160 cm
Canopy internal work area:	
Width	96 cm
Depth	66 cm
Height	40 cm
Hinged front door opening width	84 cm
Weight of instrument with trolley, microscope and canopy	112 kg
Weight of instrument crated for shipping.	304 kg
Crate size for shipping (Front opening)	158H x 127W x 116D cm
Power requirements	220/240 Volt 50Hz (Opt. 110/115 Volt 50/60 Hz)
STANDARD MICROSCOPE DUAL MICROSCOPE	
Leica M80 stereo microscope with tilting extended eyepieces	128 mb - 32 Gb storage
Magnification zoom with 10" monitor (standard)	12X-96X with 90 mm WD
High speed camera with SD card slot and imaging output HDMI	128 mb - 32 Gb storage
Output to screen or PC with software	HD or PC switch
Inverted assessment microscope with USB 3 output to surface PC (required)	200X and 400X
Removable sliding stage on high magnification stage.	
MOTORISED TROLLEY	
Arm port centre height adjustment from floor	90-110 cm
Height adjustment via up/down switch	20 cm
Castors 100 mm medical grade swivel with floor lift-locks	4
CATALOGUE NO:	RD CLT 3000 AS
Design and technical specifications can change without notification	
04/19	

FOR FURTHER DETAILED INFORMATION CONTACT:

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