

CondoCell® FAQs

Topic	Answer
How long does it take CondoCell® to reach its desired environment* from standard room air conditions?	
<ul style="list-style-type: none"> • Temperature 	40-80 min (avg 65 min)
<ul style="list-style-type: none"> • Humidity 	50 min
<ul style="list-style-type: none"> • CO₂ 	90 min
<ul style="list-style-type: none"> • O₂ 	90 min (Use Rapid Purge Unit for faster timing)
Using the Rapid Purge Unit (RPU), how long does it take to get to lower levels of Oxygen using 100% N ₂ ?	
<ul style="list-style-type: none"> • 15% 	7 sec
<ul style="list-style-type: none"> • 10% 	15 sec
<ul style="list-style-type: none"> • 5% 	29 sec
<ul style="list-style-type: none"> • 4% 	34 sec
<ul style="list-style-type: none"> • 3% 	40 sec
<ul style="list-style-type: none"> • 2% 	49 sec
<ul style="list-style-type: none"> • 1% 	1 min
<ul style="list-style-type: none"> • 0% 	2 min
Using Premixed Gas with the RPU, how long does it take to get to the premixed level?	2 min
How long will CondoCell® hold its environment once removed from the incubator/workstation and placed in standard room air conditions?	
<ul style="list-style-type: none"> • Temperature 	Within 2°C = 20 min
<ul style="list-style-type: none"> • Humidity 	1+ hours
<ul style="list-style-type: none"> • CO₂ 	Within 0.2% = 30 min
<ul style="list-style-type: none"> • O₂ 	Within 0.2% = 30 min
What is the maximum imaging magnification through the bottom glass?	20X
What is the internal pressure of CondoCell® to ensure it will not be a detriment to the cells?	0 kPa above ambient (when using 1 filter)
What is the flow rate of the Air Circulation Unit (ACU)?	34-36mL/min
Is the culture medium affected after removing CondoCell® from the incubator/workstation and placed in standard air conditions?	Media temp drop is mitigated when in CondoCell®
Do cells grow any different when placed in CondoCell®?	
<ul style="list-style-type: none"> • Cell types (3T3 MEFs, MCF7 breast cancer, MIA PaCa2 pancreatic cancer, and Mesenchymal Stem Cells) 	No difference in growth rate.
<ul style="list-style-type: none"> • Human Bone Marrow aspirates 	Slightly better colony formation and differentiation
<ul style="list-style-type: none"> • In InvivoO₂ workstation vs. tri-gas incubator 	No difference. CondoCell® helps a tri-gas mimic a workstation
Does CondoCell® protect against media evaporation?	
<ul style="list-style-type: none"> • Workstation: 15 min trips to the microscope daily for 4 days 	50% more media retention
<ul style="list-style-type: none"> • Baker Incubator: 7x 30 sec door openings and 1x 15 min microscope trip daily for 4 days 	20% more media retention
<ul style="list-style-type: none"> • Tri-Gas Incubator: 7x 30 sec door openings and 1x 15 min microscope trip daily for 4 days 	100% more media retention

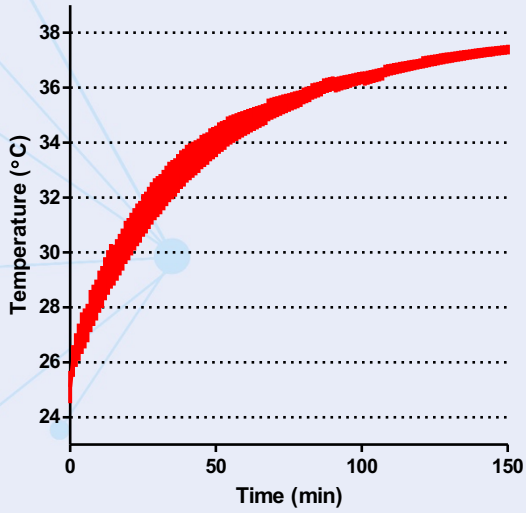
*Setpoint assumed to be 37°C, 5% CO₂, 5% O₂, 70% RH

Can CondoCell® be autoclaved?	
<ul style="list-style-type: none">• Glass Plates	The glass cannot be autoclaved. Both top and bottom plates have to be removed
<ul style="list-style-type: none">• Plastic CondoCell® body and gaskets	Resistant to 121°C for 15 min cycles
<ul style="list-style-type: none">• Filters, tubing, ACU, etc.	Not Recommended
Does CondoCell® stop COVID-19 or other viruses escaping into the environment from inside?	No, the 0.2µm filters cannot prevent the escape of viruses from CondoCell®

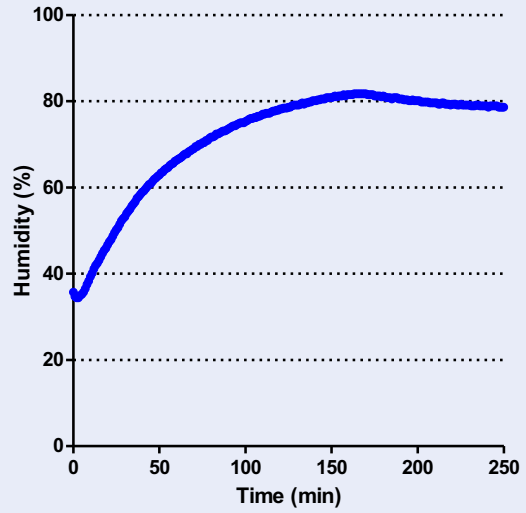
CondoCell® Supporting Information

From atmospheric conditions to set point

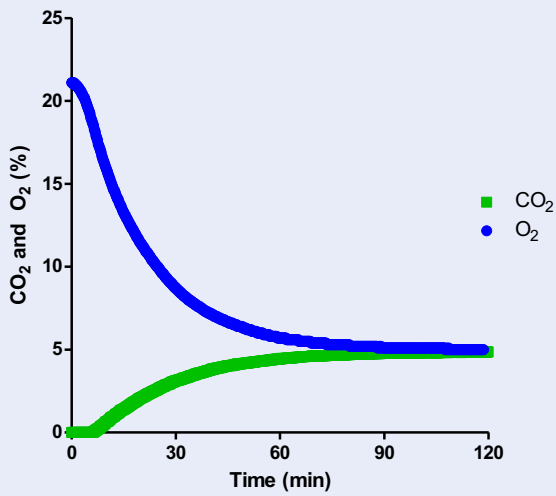
CondoCell® Warm Up



Humidity rise

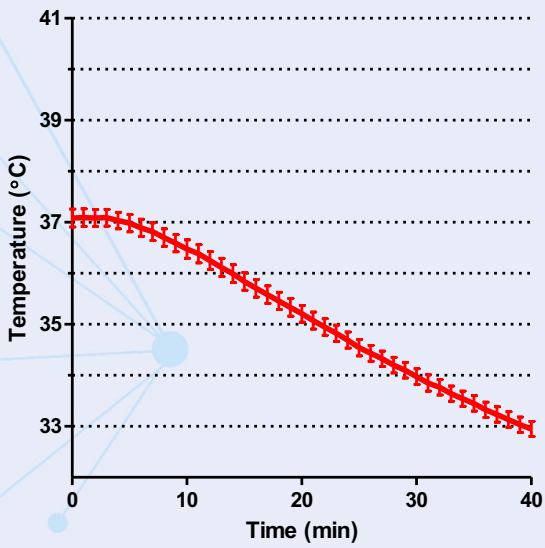


CO₂ and O₂ to setpoint

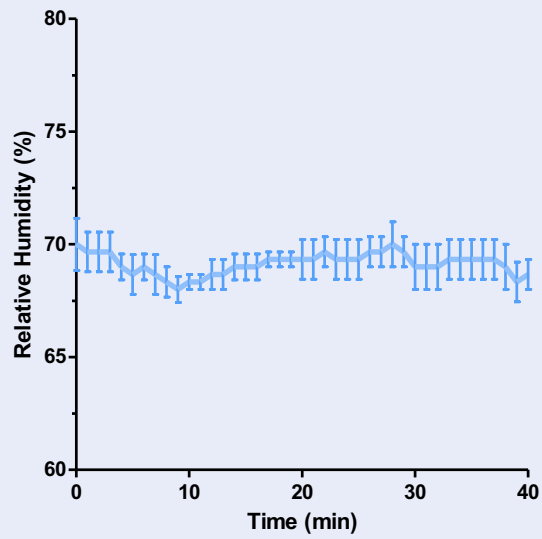


Holding setpoint once removed from the incubator/workstation

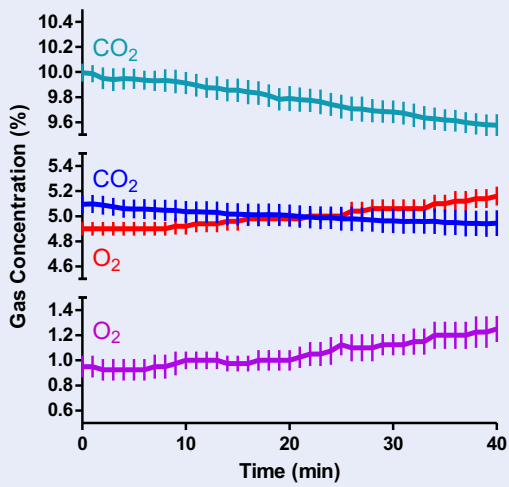
CondoCell® Retention



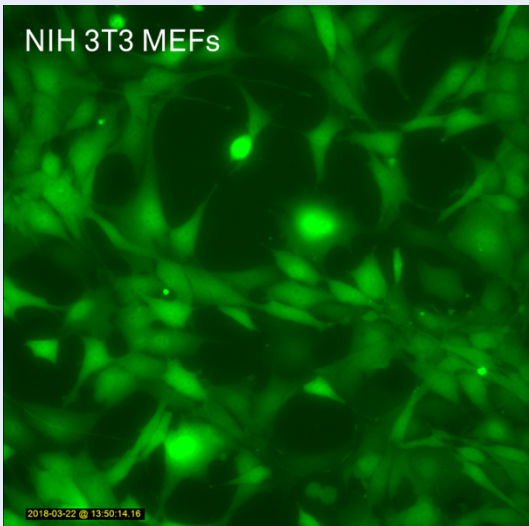
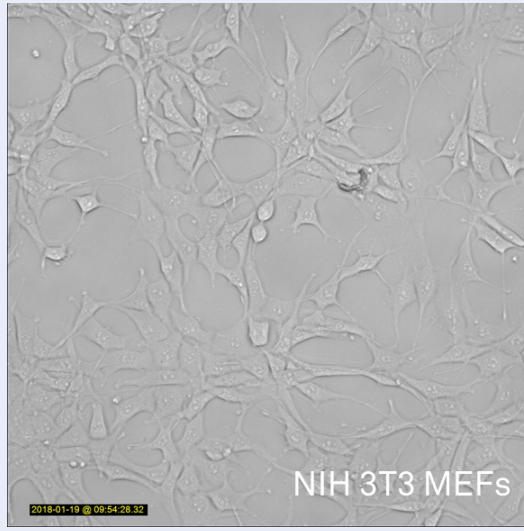
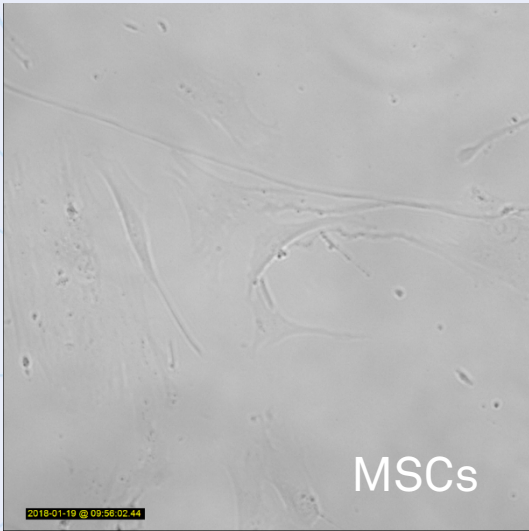
CondoCell® Retention



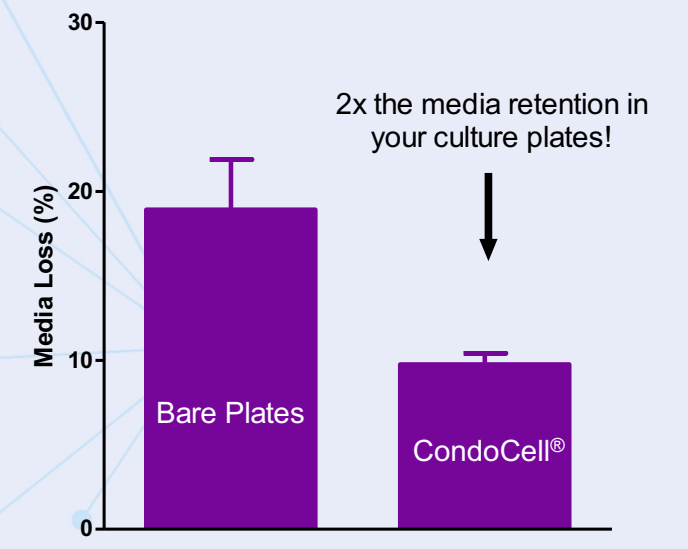
CondoCell® Retention



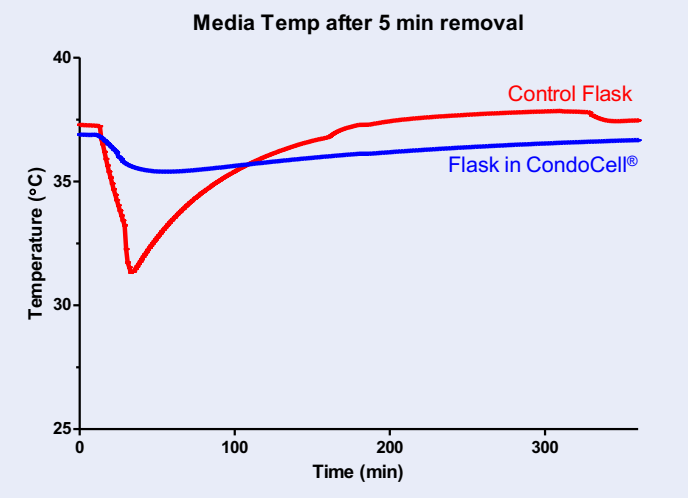
CondoCell® allows for up to 20X imaging, providing easy insight as your cells are growing



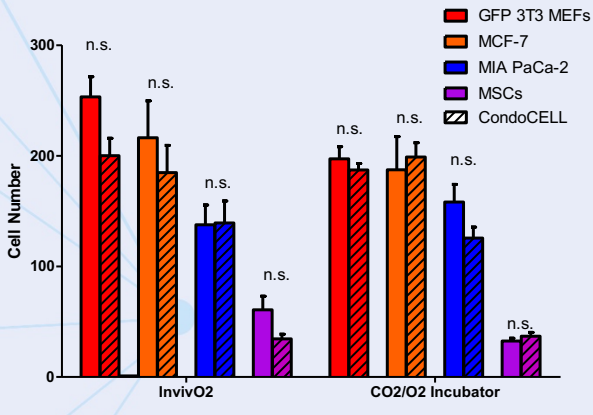
CondoCell® prevents significant media loss when cultured over 4 days



CondoCell® holds on to the media temperature to help prevent temperature shock to cells



No significant changes in growth of common cell lines were observed when grown in a Physoxia workstation (InvivoO₂) or CO₂/O₂ incubator



Patient Bone Marrow Derived Mesenchymal Stem Cells grew in greater numbers and had increased chondrocyte differentiation when grown in a CondoCell[®]

