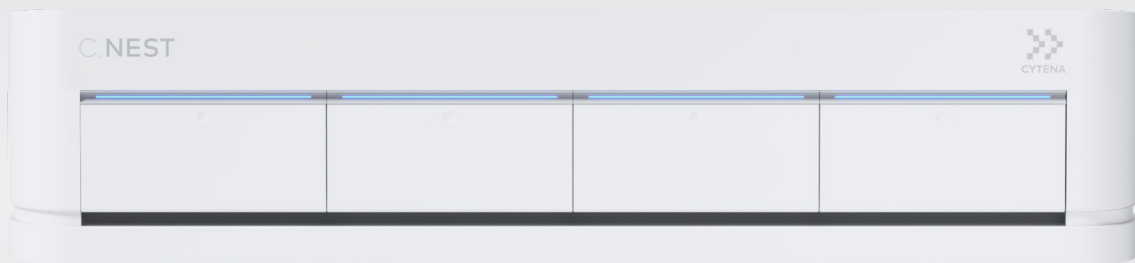


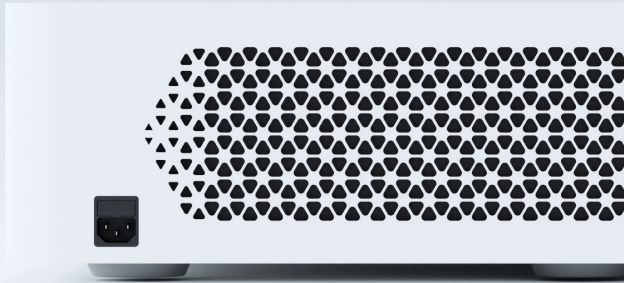
# C.NEST®

Enable  
adjustable  
mixing in 96/24-  
well plates

Innovative microplate agitation  
culture system

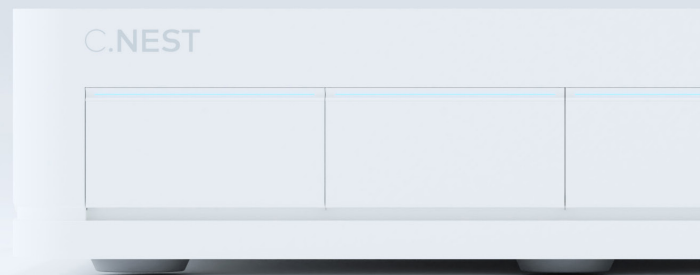


**CYTENA BPS**   
A BICO COMPANY



C.NEST is a microplate agitation culture system designed to support superior cell growth and viability through its patented agitation technology.

The system empowers CHO cell upscaling in cell line development and enables the delicate cultivation of spheroids, organoids, and patient-derived blood cells.



# What makes C.NEST different



## Patented mixing technology for 96/24- well plates

- ↘ Adjustable, controllable mixing speed & pattern
- ↘ Homogeneous nutrients and higher oxygen transfer

## Precisely-controlled incubation in four chambers

- ↘ Independent control for each chamber
- ↘ Constant monitoring of environmental conditions



# The magic of CYTENA BPS mixing technology

Our patented reciprocating mixing technology makes adjustable mixing culture in 96/24-well plates possible.

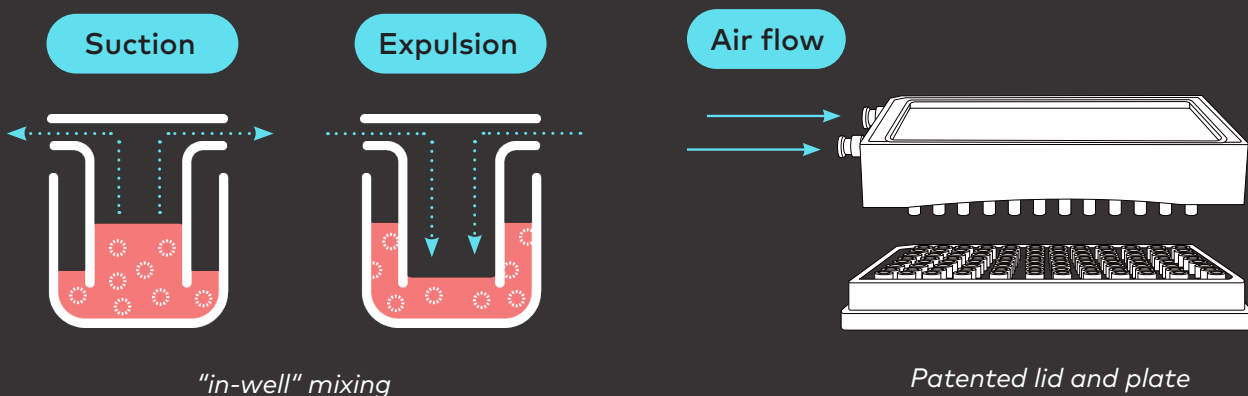


Homogeneous nutrient



Higher oxygen transfer rate

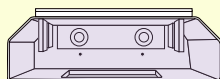
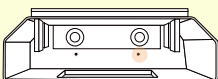
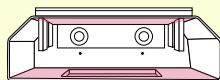
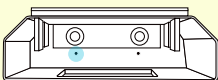
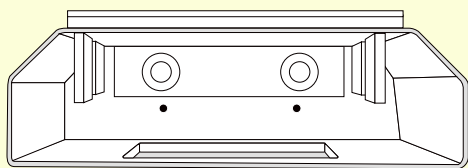
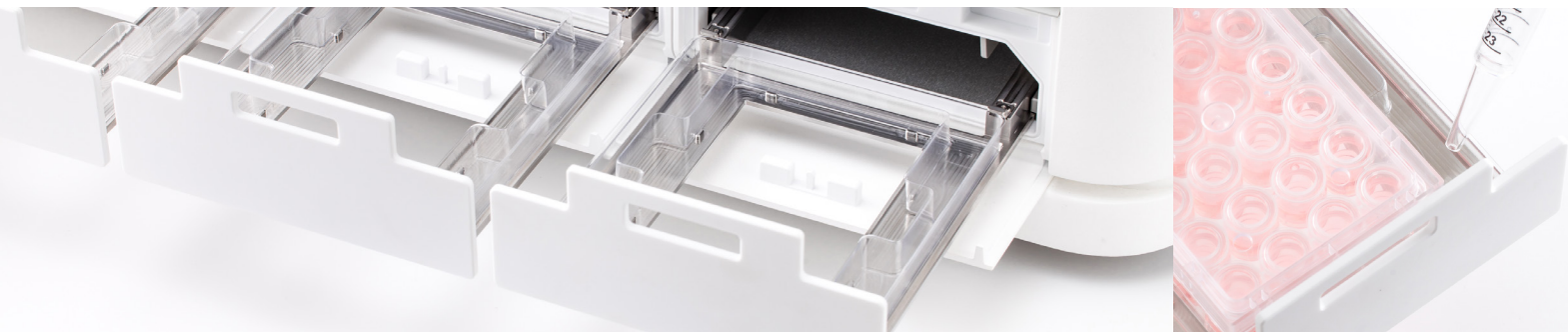
Elevate cell health effortlessly with our patented lid. With the oxygen transfer tubes engaging with each well, cells are offered a continuous oxygen supply to proliferate in a healthy environment.



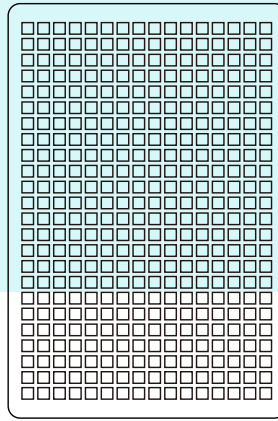
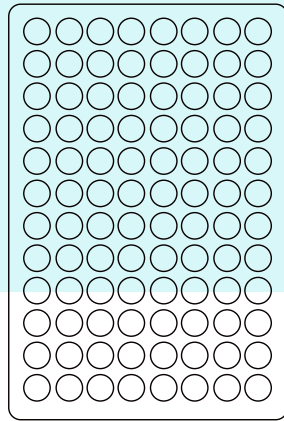
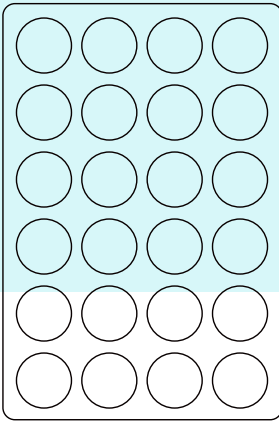
# Miniature incubation chambers

Precise and independent control

- ↳ Water reservoir to maintain humidity
- ↳ Temperature control
- ↳ CO<sub>2</sub> level control
- ↳ Humidity monitoring
- ↳ UV light sterilization



The temperature and CO<sub>2</sub> levels can be monitored and adjusted in each NEST chamber. Humidity levels are monitored in real time and can be maintained by adding distilled water into the reservoir. UV sterilization can be activated independently for each NEST chamber.



24  
96  
384

## Flexible for both mixing and static culture

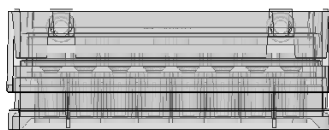
C.NEST allows for different settings and mixing patterns in the four independent chambers. One chamber can fit one 96 or 24-well plate and its corresponding patented lid for mixing culture.

The chamber height also allows for one 24-well plate or two 96 or 384-well plates to be placed in one chamber for static culture. Enjoy the flexibility of conducting mixing and static culture in parallel.

### Mixing Culture



24-well plate  
with NEST lid



96-well plate  
with NEST lid

### Static Culture



24-well plate  
with standard lid



96-well plate  
with standard lid



384-well plate  
with standard lid



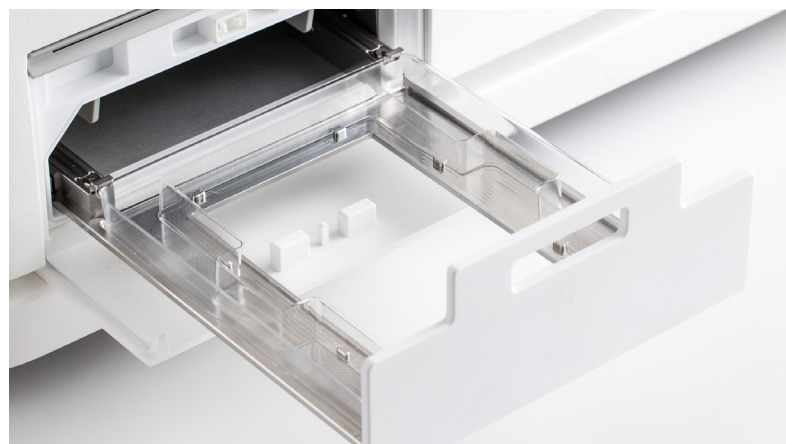
# Effortless Maintenance for Seamless Operation

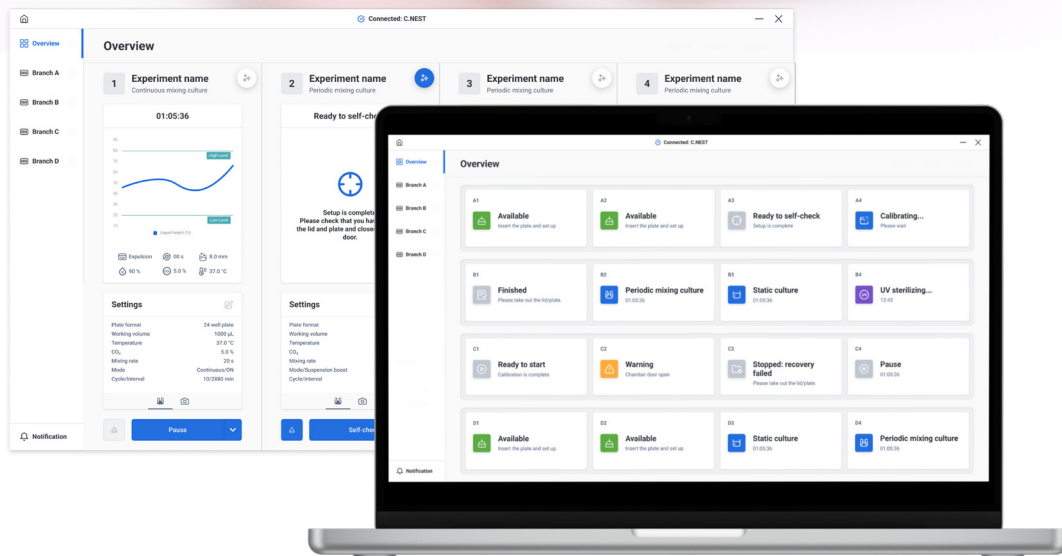
## Removable plate holder

- ↳ Simplifies cleaning for enhanced operational efficiency
- ↳ Ensures maximum sterility and durability for repeated use

## Disposable water tray

- ↳ Prevent carryover contamination with easy replacement





## Scalable design

C.NEST can provide the capacity you require, maximizing efficiency and productivity.

Scale experiments seamlessly with up to 16 chambers. Run up to four C.NEST in parallel and control all chambers effortlessly in one software interface.

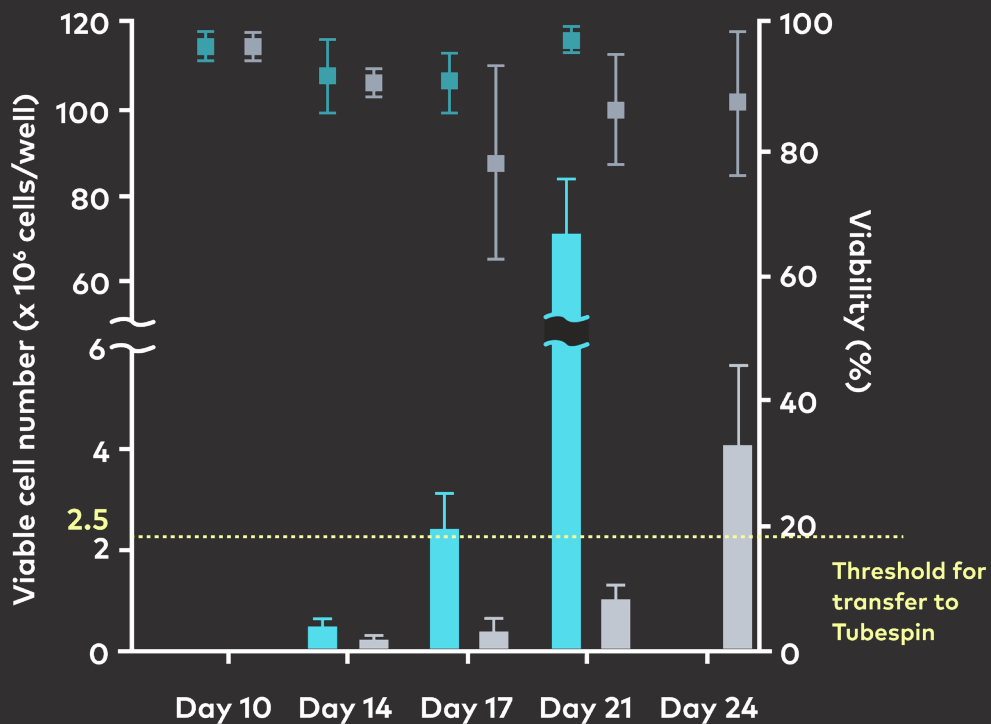


# Discover our featured application

~40 % time-saving in cell line development

Save cost, save labor, save time

C.NEST single cell expansion workflow



Single cell seeding → Day 10 → Day 14 → Day 17 → Day 21 → Day 24

	Day 10	Day 14	Day 17	Day 21	Day 24	Day 24
<b>C.NEST</b>	384 wp	96 wp	24 wp	Tube spin		
<b>Traditional</b>	384 wp	96 wp	24 wp	24 wp	6 wp	Tube spin

# C.NEST

## Ordering information

### C.NEST Instrument

Product No.	Product Name	Description
CBS161101022	C.NEST	<ul style="list-style-type: none"><li>• 4 C.NEST cell culture chambers</li><li>• C.NEST Software</li><li>• Standard warranty (12 months from date of installation)</li><li>• Origin: Taiwan</li></ul>

### C.NEST Consumables

Product No.	Product Name	Description
D16110025167	C.NEST Cell Culture Kit - Greiner, 24 Well, 20 Sets	<ul style="list-style-type: none"><li>• 20 Greiner CELLSTAR® Cell Culture Multiwell Plates, 24 Well, Single Packed (No.662102/662160)</li><li>• 20 C.NEST Lids, 24 Well, Single Packed</li></ul>
D16110025168	C.NEST Cell Culture Kit - Corning, 96 Well, 20 Sets	<ul style="list-style-type: none"><li>• 20 Corning Cell Culture Multiwell Plates, 96 Well, Single Packed (No.3599)</li><li>• 20 C.NEST Lids, 96 Well, Single Packed</li></ul>

# Specification

## General characteristics

Description	Value	Unit
<b>Dimensions</b>		
Width	750	mm
Depth	460	mm
Height	190	mm
Weight	33	kg
<b>Electrical characteristics</b>		
Input voltage	100-240	Vac
Input voltage net tolerance	±10	%
Input voltage frequency	50/60	Hz
Max. input current	5.9-2.7	A
Power mains supply voltage fluctuations	±10	%
Installation category	CAT II	-
Input fuse type	250VAC, 8A, time-lag	-

## Basic configuration

Description	Value	Unit
<b>Incubation</b>		
Temperature control range	RT+10 – 40 ± 0.2	°C
CO <sub>2</sub> level control range	1 – 20	%
CO <sub>2</sub> accuracy*	± 0.3	%
Humidity monitoring range	0 – 100 ± 5 (at 37°C)	%
<b>Culture</b>		
Mixing rate (24-well plate)	10 – 50 (± 5%)	sec
Mixing rate (96-well plate)	10 – 50 (± 5%)	sec
Working volume (24-well plate)	1,000–1,600	µl
Working volume (96-well plate)	150-200	µl

Each value above is specified with one standard deviation from its mean (M±1SD)

\*The range of deviation is based on a 5% CO<sub>2</sub> set point and may vary with adjustments or if recalibration is needed.



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