

The multi-tool for your mAb development



# Optimized mAb Development

**The multi-purpose device for your antibody development: New Brunswick™ S41i CO<sub>2</sub> Incubator Shaker**

Improved cell culture reproducibility and continuous processes save costs, time, and thus lead to faster time-to-market. The New Brunswick S41i is a reliable partner to support you in various process steps in the development of monoclonal antibodies (mAb) from reproducible hybridoma generation, transient protein expression, cell line development, to production of reproducible bioreactor seed cultures.

## **All culture steps in the same environment: static incubation plus simultaneous shaking**

- > Flexibility for many vessel formats, e.g. multiwell plates, T-flasks, shake flasks, and more
- > Adhesive mat and universal platform for high flexibility and rapid change between different vessel formats

## **Reliable growth conditions for sensitive cells and process steps**

- > Tight pH control: CO<sub>2</sub> stability over time  $\pm 0.2\%$ , CO<sub>2</sub> spatial homogeneity  $\pm 0.1\%$
- > Effective evaporation protection at 95% relative humidity
- > Protection of light-sensitive media with double door system

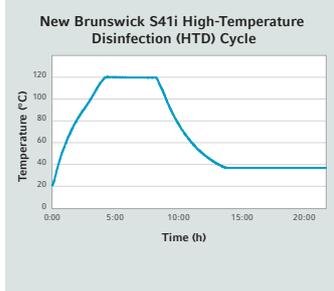
## **Save time and money, reach your carbon footprint targets**

- > Significantly reduced CO<sub>2</sub> consumption for less frequent cylinder changes
- > Rapid and safe reset for next batch or project with easy-to-clean chamber and high temperature disinfection

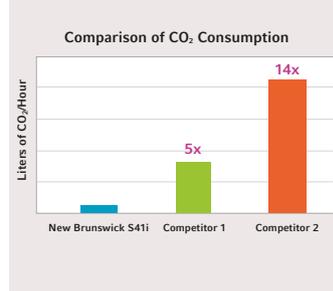
# New Brunswick S41i CO<sub>2</sub> Incubator Shaker: Your Cell Culture Multi-Tool



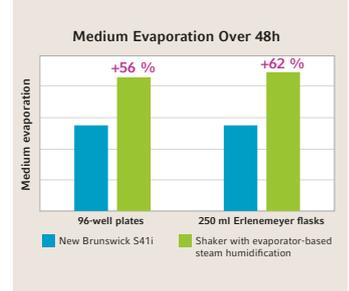
**Easy cleaning, reliable contamination protection**  
Sample loss or delays in your processes due to contamination are unacceptable? The New Brunswick S41i is fast and easy to clean by its fanless design – no fan-containing boxes that pose a constant potential contamination threat.



**Peace of mind with integrated high temperature disinfection**  
Set-up your CO<sub>2</sub> incubator shaker safely and quickly for your next project – with the only CO<sub>2</sub> incubator shaker in the market with a 120 °C disinfection. For a high level of contamination protection for your lab.



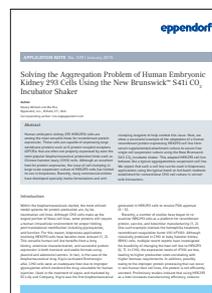
**Significantly reduced CO<sub>2</sub> consumption**  
CO<sub>2</sub> consumption can become a cost factor by the price of gas itself. Additionally, the process of changing gas cylinders add to costs of ownership due to labor and shaker downtime. Compare the actual gas consumption data provided by manufacturers.



**Enhanced evaporation protection**  
The New Brunswick S41i is precision engineered by Eppendorf to minimize medium evaporation. Data demonstrates the power of a water tray-based humidification to 95 % rH compared to evaporator-based steam humidification. To effectively prevent condensation, 3D six-sided direct heating is used.



**Application Note:** Hybridoma and CHO Cell Culture using the New Brunswick™ S41i, an Environmentally-Friendly, “Low Emission” Incubator Shaker. [Read more.](#)



**Application Note:** Solving the Aggregation Problem of Human Embryonic Kidney 293 Cells Using the New Brunswick™ S41i CO<sub>2</sub> Incubator Shaker. [Read more.](#)



Learn more about the New Brunswick S41i, accessories, and request your individual quote:  
[www.eppendorf.com/s41i](http://www.eppendorf.com/s41i)

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