C.STATION™

Finding better clones faster

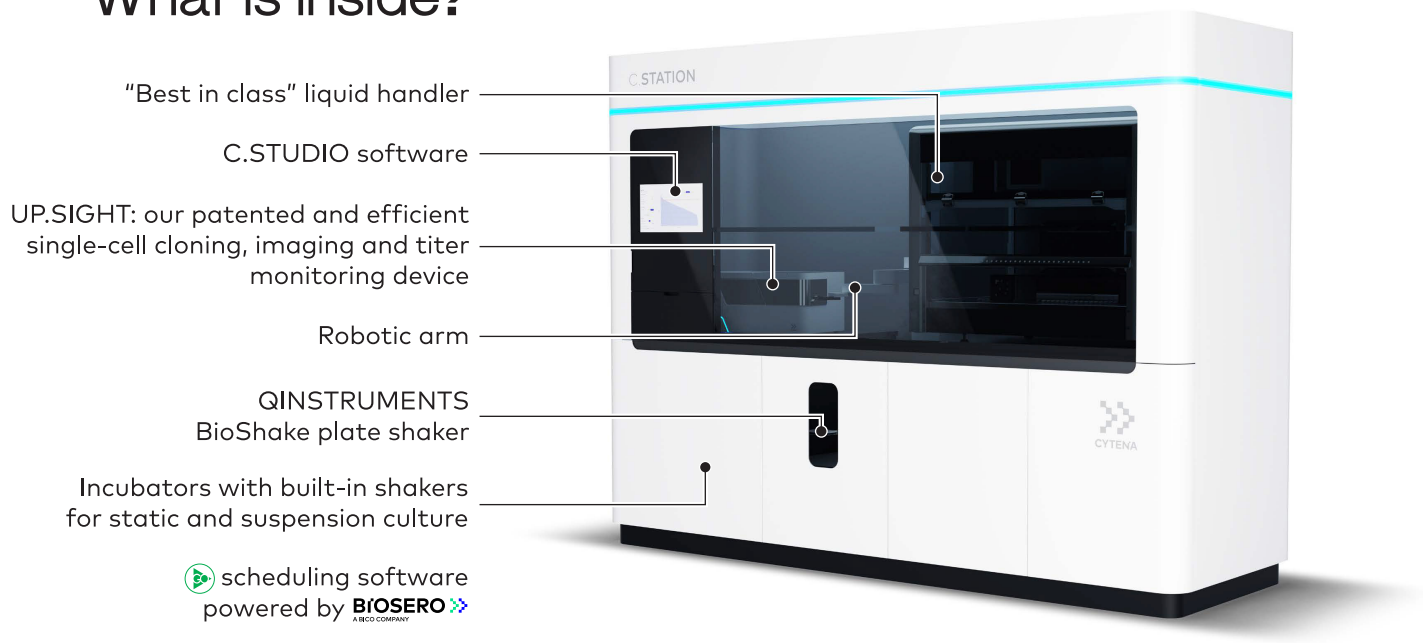
CYTENA
A BICO COMPANY

C.STATION™

Fully automated stable cell line development

Optimize and streamline entire cell line development (CLD) workflows within this automated, intuitively designed workstation. From single-cell cloning of transfected cells to selecting high-producing clones for upscaling, the all-new C.STATION fully automates stable CLD for monoclonal antibody production.

What is inside?



What does the C.STATION offer?

- Off-the-shelf automated CLD for minimal hands-on time
- Double assurance of clonality
- Plate imaging and automated confluency analysis
- Cell culture and upscaling
- mAbs titer measurement
- C.STUDIO for data management, clone ranking and selection
- Running multiple CLD campaigns in parallel

The next generation of CLD automation

The C.STATION manages the entire CLD workflow from single-cell cloning to high-producing clone picking for upscaling

Preconfigured and validated protocols
Optimized and validated protocols help generate stable cell lines and make laboratory automation best practices more accessible.

Sterile workflow
HEPA filters within the C.STATION create a sterile environment throughout the entire workflow.

Flexibility and upscaling
The C.STATION gives you the flexibility to screen hundreds or thousands of clones for higher titers. Easily upscale CLD by processing multiple runs at once for in-house projects or contract development manufacturing (CDM).

Shorter timelines and better outcomes
The C.STATION is ready to use straight from the box and full automation saves you time normally spent in the planning phase. Our proven technology within the workstation also reduces the risk of failures in the development process.

Proven technology
The C.STATION automates CLD workflows by integrating our proven technologies in single-cell dispensing, assurance of clonality, plate imaging, colony tracking and titer assessment all in a self-contained workstation.

Single point of contact
CYTENA is your single point of contact for the entire workstation.

Technical Specifications

	C.STATION Suspension BSL1	C.STATION Suspension BSL2	C.STATION Adherent BSL2
Biosafety Standard	Class I according to NSF/ANSI 49 A2 respect. BS EN 12469:2000 (product protection) HEPA H14 filtered intake	Class II according to NSF/ANSI 49 A2 respect. BS EN 12469:2000 (product and user protection) HEPA H14 filtered intake and exhaust 70/30 recirculation principle with 30% exhausted air	Class II according to NSF/ANSI 49 A2 respect. BS EN 12469:2000 (product and user protection) HEPA H14 filtered intake and exhaust 70/30 recirculation principle with 30% exhausted air
Plate compatibility	ANSI SLAS1-2004 (R2012) without FB module: up to 6-Well with FB module: up to deep-well	ANSI SLAS1-2004 (R2012) without FB module: up to 6-Well with FB module: up to deep-well	ANSI SLAS1-2004 (R2012) up to 6-Well
Fed-Batch option	yes	yes	no
Plate Capacity	without FB module: up to 60 plates with FB module: up to 44 plates	without FB module: up to 60 plates with FB module: up to 44 plates	up to 60 plates
Cell Sorting	Cell Morphology and Fluorescence on CYTENA UP.SIGHT	Cell Morphology and Fluorescence on CYTENA UP.SIGHT	Cell Morphology and Fluorescence on CYTENA UP.SIGHT
Plate washer	no	no	CYTENA C.WASH
Liquid Handling	Hamilton STARlet M	Hamilton STARlet M	Hamilton STARlet M with optional 96-Well head (MPH)
Liquid Handling Pipette Tips	50/300/1000 µL filtered or unfiltered, capacitive tips unfiltered 50/300 µL tips stackable for 4x capacity on deck	50/300/1000 µL filtered or unfiltered, capacitive tips unfiltered 50/300 µL tips stackable for 4x capacity on deck	50/300/1000 µL filtered or unfiltered, capacitive tips unfiltered 50/300 µL tips stackable for 4x capacity on deck
Liquid Handling Specifications	Minimum/maximum aspirate and dispense volume 50 µL tip 300 µL tip 1000 µL tip	1-1000 µL depending on tip type @1 µL: 4.0% precision, 5.0% trueness @50 µL: 0.75% precision, 2.0% trueness @200 µL: 0.75% precision, 1.0% trueness @1000 µL: 0.75% precision, 1.0% trueness	1-1000 µL depending on tip type @1 µL: 4.0% precision, 5.0% trueness @50 µL: 0.75% precision, 2.0% trueness @200 µL: 0.75% precision, 1.0% trueness @1000 µL: 0.75% precision, 1.0% trueness
Liquid Handling Troughput	Fill one 96-well microtiter plate with 100 µL samples (new tips for each sample): 320 s Aliquot 100 µL to each well of a 96-well plate, liquid level detection on aspirate: 35 s	Fill one 96-well microtiter plate with 100 µL samples (new tips for each sample): 320 s Aliquot 100 µL to each well of a 96-well plate, liquid level detection on aspirate: 35 s	Fill one 96-well microtiter plate with 100 µL samples (new tips for each sample): 320 s Aliquot 100 µL to each well of a 96-well plate, liquid level detection on aspirate: 35 s
Incubation Temperature	RT+5 °C to 37 °C optional cooling: 4°C to 50 °C	RT+5 °C to 37 °C optional cooling: 4°C to 50 °C	RT+5 °C to 37 °C optional cooling: 4°C to 50 °C
Incubation CO_2	0-20 Vol% CO_2	0-20 Vol% CO_2	0-20 Vol% CO_2
Incubation Humidity	without FB module: < 95% with FB module: < 80%	without FB module: < 95% with FB module: < 80%	< 95%
Plate Shaking for Assays	200-3000 rpm, constant 2 mm diameter	200-3000 rpm, constant 2 mm diameter	200-3000 rpm, constant 2 mm diameter
Software	Green Button Go Scheduler, C.STUDIO (Analysis) on Windows 11	Green Button Go Scheduler, C.STUDIO (Analysis) on Windows 11	Green Button Go Scheduler, C.STUDIO (Analysis) on Windows 11
Computation	Custom Rack PC	Custom Rack PC	Custom Rack PC
Dimensions (W x D x H)	3500 x 1200 x 2400 mm 137.80 x 47.25 x 94.5 in	4200x1550x2440 mm 165.50 x 61.10 x 96.10 in	4200x1550x2440 mm 165.50 x 61.10 x 96.10 in
Footprint Service Mode (W x D)	3500 x 2540 mm 137.80 x 100.00 in	4650 x 2240 mm 183.10 x 88.25 in	4650 x 2240 mm 183.10 x 88.25 in
Weight	1500 kg 3310 lbs	2000 kg 4410 lbs	2000 kg 4410 lbs
Area load	< 400 kg/m² < 85 lbs/ft²	< 500 kg/m² < 105 lbs/ft²	< 500 kg/m² < 105 lbs/ft²
Power Supply	400 VAC, 32 A via IEC 60309 6h (3L+N+PE) option: 3x individually fused line: 230 VAC, 16 A	400 VAC, 32 A via IEC 60309 6h (3L+N+PE) option: 3x individually fused line: 230 VAC, 16 A	400 VAC, 32 A via IEC 60309 6h (3L+N+PE) option: 3x individually fused line: 230 VAC, 16 A
Ambient Conditions	+15 °C to + 25 °C non-condensing air (30% - 80% rH)	+15 °C to + 25 °C non-condensing air (30% - 80% rH)	+15 °C to + 25 °C non-condensing air (30% - 80% rH)

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Learn more at
CYTENA.COM

CYTENA is a leading provider of high-precision instruments for isolating, dispensing, imaging, analyzing and handling biological cells, and continues to build on the success of the single-cell dispensing technology the company patented as a spin-off from the University of Freiburg, Germany, in 2014. Today, as part of BICO, the world's leading bioconvergence company, CYTENA's award-winning devices are still manufactured in Germany and used at prestigious academic and pharmaceutical labs around the world to automate workflows in numerous application areas, including stable cell line development, single-cell omics, high-throughput screening and drug discovery. CYTENA's breakthrough innovations for the lab combine advanced automation, state-of-the-art software engineering and the latest insights in cell biology to maximize efficiencies in the life sciences and create the future of health. Learn more at cytena.com.

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