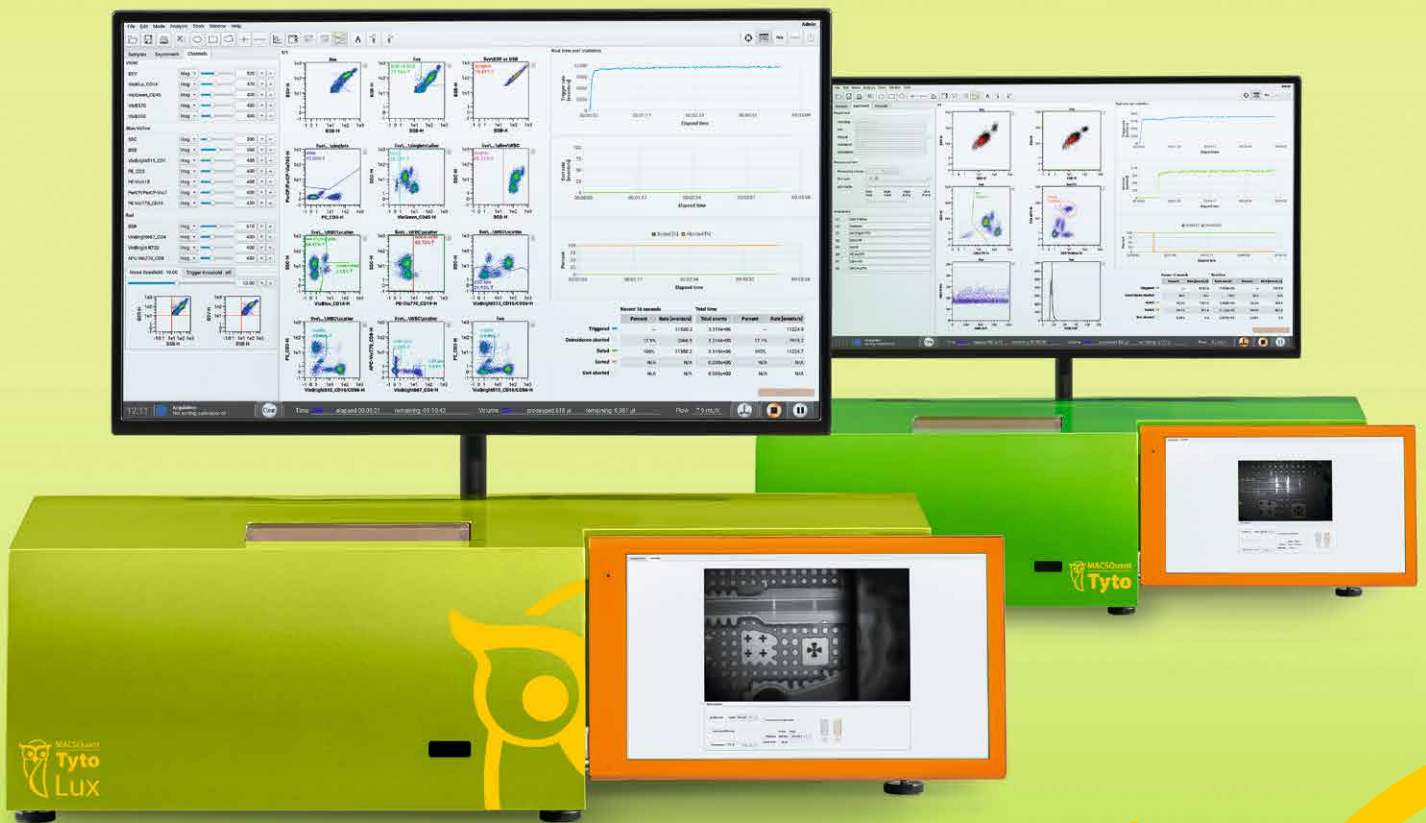




Miltenyi Biotec

MACSQuant[®] Tyto[®] Family of cell sorters

Sort the impossible. Achieve the extraordinary.



MACSQuant
Tyto Lux Cell Sorter
NEW FAMILY
MEMBER

Gentle cell sorting in a closed system

Redefine cell sorting with the MACSQuant Tyto Family of benchtop cell sorters. From fragile cells to hazardous samples, whether in research or clinical settings, make the “impossible” routine and expand your flow sorting capabilities with high-speed, multiparameter cell sorting.

Built on the trusted MACSQuant Tyto Cell Sorter, the growing family now includes the MACSQuant Tyto Lux Cell Sorter, an expanding cartridge portfolio, and enhanced software capabilities, delivering innovation without compromise.

Be gentle – Safeguard cell functionality

Our patented microchip technology combined with integrated temperature control mitigates sorter-induced cellular stress, preserving cell viability and functionality. For truly happy cells and reliable results.

Prioritize safety for you and your samples

The disposable, sterile cartridge ensures a sterile, contamination-free environment without the need for laborious safety protocols, even when handling infectious or hazardous samples.

Save time while maximizing precision

Take on the most advanced sorting experiments with ease. Our MACSQuantify™ Tyto Software streamlines operation and optimizes sorting performance, ensuring reproducibility and precision at every step.

Seamlessly integrate cell sorting into GMP workflows

Benefit from a full GMP-compliant workflow with our MACS® GMP Tyto Consumables, provided with extensive documentation for regulatory support, and the 21 CFR Part 11 software module for compliance on electronic records and signatures.





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VISIT



Learn more about cell sorting on the
MACSQuant Tyto Cartridge!

► miltenyibiotec.com/tytofamily

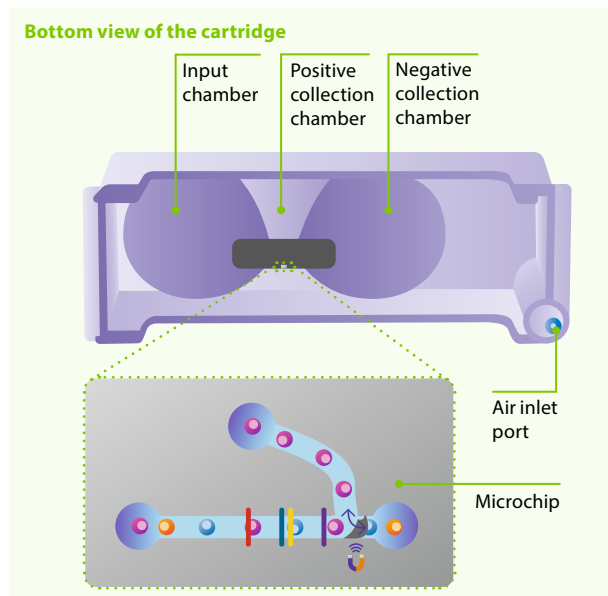
Sort the impossible

Microchip-based sorting technology in a closed cartridge.

Gentle sorting that protects your cells and your results

The MACSQuant Tyto Family offers a compact system where cell sorting happens exclusively within the closed, sterile cartridge. At its core, our patented microchip technology enables high-speed, fluorescence-based sorting powered by the world's fastest mechanical valve (30,000 actuations/sec).

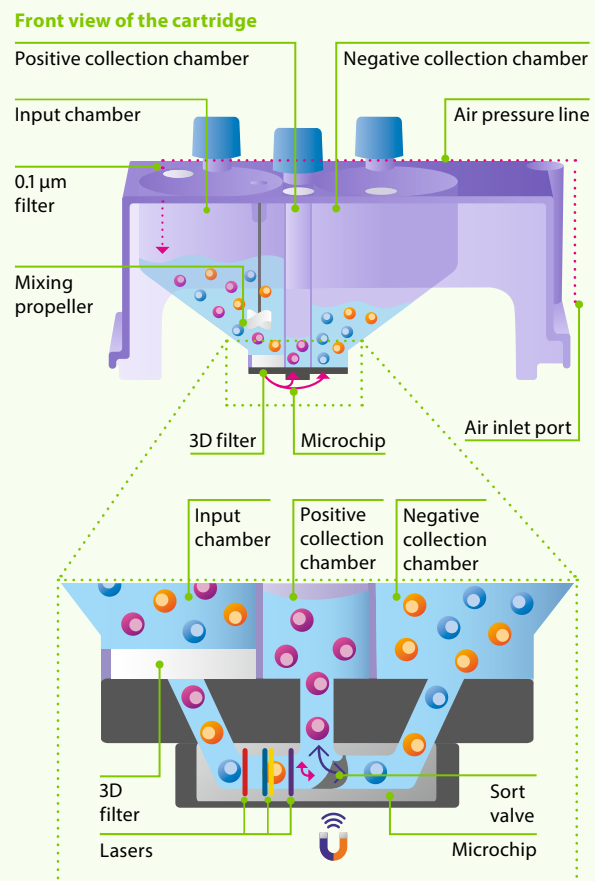
Unlike conventional droplet sorters, our microchip-based system operates under low air pressure and without electrical charges, decompression, or shear stress. This minimizes sorter-induced cellular stress, ensuring exceptional viability, preserving functionality, and unlocking endless sorting possibilities.



Sort fragile or rare cells with high yield and purity, ensuring reliable results and high-quality data for even the most sensitive downstream applications.

Sorting precision step-by-step

- 1** Cell sorting happens exclusively within the closed cartridge. Air from the instrument is directed into the cartridge through a 0.1 μm filter and traverses the air pressure line towards the input chamber. The air flow propels the cells through a 3D-filter system, guiding them into the microchannel and toward the microchip.
- 2** Inside the microchip, cells are interrogated by laser beams. Fluorescent and scattered light signatures are used to identify cells. Non-target cells bypass the closed valve into the negative collection chamber.
- 3** Once a target cell is identified, the sorting valve inside the microchip opens and directs the target cell into the sorting chamber. The valve then returns to its original position and is ready for the next sort.



MACSQuant Tyto Family of cell sorters

Smart features for effortless cell sorting.

Temperature-controlled chamber:

Keep cells comfortable

The temperature-controlled loading chamber maintains cells at a selected temperature (4–25 °C).

MACSQuant Tyto Cartridges:

Microchip precision, maximum safety

Expanding portfolio of cartridge types designed to meet the growing demands of complex cell sorting, also available in MACS GMP grade.

Advanced software automation:

Tackling complex cell sorting with ease

Uncomplicated, hands-free cell sorting with powerful automation, standardized workflows, and smooth integration into GMP environments.

Integrated barcode scanner:

Fast setup, smooth operation

The built-in scanner instantly identifies cartridge type, lot and serial numbers, and calibration beads – streamlining setup and ensuring accurate, hassle-free operation.

Intuitive touchscreen interface:

Tap, sort, done

The additional touchscreen provides convenient operation and real-time monitoring of the microchip with a live camera view.



MACSQuant Tyto Cell Sorter

The revolution in cell sorting.

The MACSQuant Tyto Cell Sorter sets a new standard in multiparameter cell sorting with microchip-based, gentle process in the safety of a closed, sterile cartridge.

GMP-compliant cell sorting

With its launch in 2016, Miltenyi Biotec pioneered GMP-compliant, multiparameter cell sorting, paving the way to groundbreaking advancements in clinical applications. Since then, the MACSQuant Tyto Cell Sorter has been supporting numerous clinical trials worldwide.

Making cell sorting child's play

If you're comfortable using a basic flow analyzer, you will feel right at home with the MACSQuant Tyto Family. Introduced in 2023, our Tyto *Breeze* ease-of-use approach brings advanced software automation to the forefront, transforming complex cell sorting into a fast, intuitive, and effortless process. With features like fast sort setup, automated run reports, and hands-free operation, high-performance sorting integrates smoothly into everyday workflows – no specialized training required.



MACSQuant Tyto Cell Sorter optical bench

405 nm

450/50 nm	VioBlue®
525/50 nm	VioGreen™

488 nm

525/50 nm	FITC
585/40 nm	PE
655–730 nm	PerCP-Vio® 700
750 nm LP	PE-Vio 770

640 nm

655–730 nm	APC
750 nm LP	APC-Vio 770

MACSQuant Tyto Lux Cell Sorter

Embrace flexibility. Unlock endless possibilities.

The new MACSQuant Tyto Lux Cell Sorter brings greater flexibility to your workflows. Equipped with an additional yellow laser, enhanced signal resolution, and advanced automation, it opens endless possibilities in research and clinical applications.

Unique features

- **Additional yellow laser (552 nm):**
Amplify your data with 12 channels.
- **Improved camera:** Ensure higher reproducibility with enhanced signal resolution.
- **Laser modes:** Easily switch the yellow laser on and off for flexible panel setup.
- **Automated door**



Next-level automation for effortless precision

The MACSQuant Tyto Lux Cell Sorter introduces unique automation features that enhance usability and performance, including an automated door and selectable laser modes. Paired with the preinstalled MACSQuantify Tyto Software 3.2, it sets a new standard for efficiency and precision in cell sorting.

LEARN MORE



Application highlight

Accelerate cell line development with sorting of cells expressing fruit dyes on the MACSQuant Tyto Lux Cell Sorter.

► miltenyibiotec.com/tytolux

MACSQuant Tyto Lux Cell Sorter optical bench

405 nm

448/20 nm	Vio Bright V423, VioBlue
520/36 nm	VioGreen
579/34 nm	Brilliant Violet™ 570
641/75 nm	Vio Bright V600

488 nm

520/36 nm	Vio Bright 515, FITC, GFP
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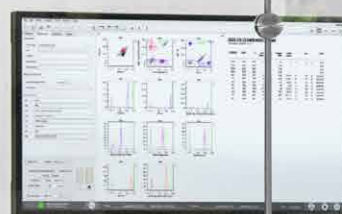
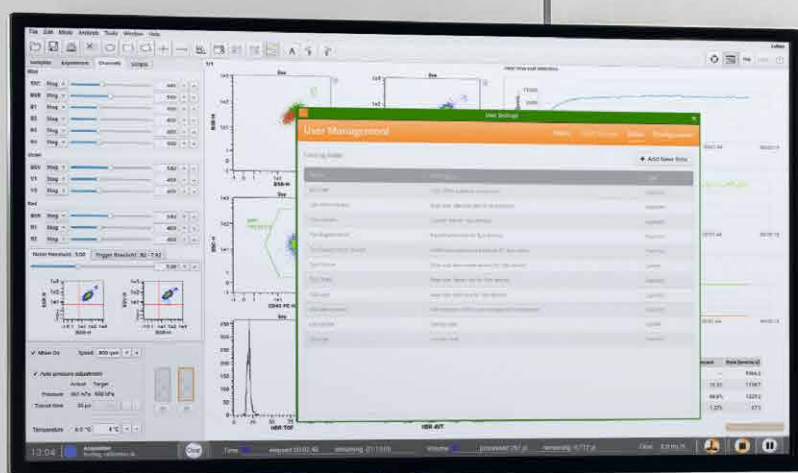
488 nm

552 nm

579/34 nm	PE
615/20 nm	mCherry, PE-Vio 615
679/75 nm	PE-Vio 670, PerCP
785/62 nm	PE-Vio 770

640 nm

667/30 nm	Vio Bright R667, APC
725/40 nm	Vio Bright R720
785/62 nm	APC-Vio 770

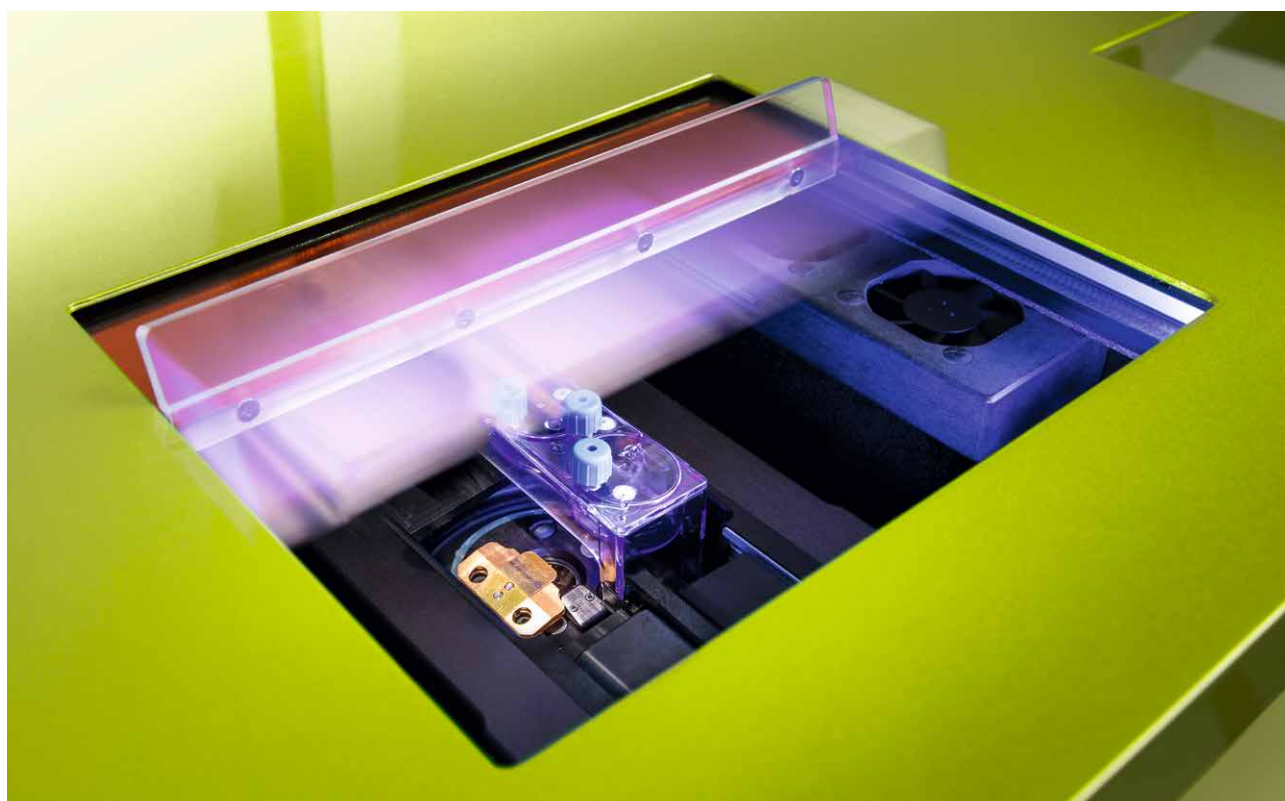


MACSQuant Tyto Family of cell sorters

Two instruments, endless possibilities.

	MACSQuant Tyto Cell Sorter	MACSQuant Tyto Lux Cell Sorter
Hardware		
405 nm laser	●	●
488 nm laser	●	●
552 nm laser	–	●
640 nm laser	●	●
Number of fluorescent channels	8	12
Number of camera fields of view	1	2
Automated door	–	●
Internal memory storage	512 GB	2 TB
MACSQuantify Tyto Software		
Default software version	3.2*	3.2
MBCore operating system	3.1 or higher	●
Automated PMT calibration (multi-instrument alignment)	3.1 or higher	●
Automated fluorescence compensation	From 3.2	●
Laser modes	–	●
Sort modes	From 3.2	●
Configurable cartridge support	From 3.2	●
21 CFR Part 11 module	3.1 or higher	●

*For new product units only.



The MACSQuant Tyto Cartridge

It's simple. It's gentle. It's sterile.

The sorting process takes place entirely within the disposable MACSQuant Tyto Cartridge. In this closed system, samples remain sealed and sterile throughout the sorting process, eliminating the risk of contamination for the instrument, sample, and operator.

No fluidics, maximum efficiency

Without sheath fluidics and fluid waste, cells are never lost and can be easily retrieved from both the positive and negative collection chambers after sorting. This enables seamless sequential sorting for stepwise refinement of cell populations, ensuring precise isolation while maximizing cell yield. Without dilution, sorted cells remain highly concentrated, minimizing processing steps and streamlining workflow efficiency in downstream applications.



Biosafety first

Within the closed cartridge, the risk of aerosol formation is eliminated. Samples are sealed and never in contact with the instrument, ensuring safer, more efficient sorting. With no external sheath fluids, the cartridge-based sorting eliminates the need for waste containers, reducing biosafety risks and simplifying waste disposal. In this closed system, each chamber on the MACSQuant Tyto Cartridge is only accessible through aseptic Luer lock inlets, and all ventilation ports are equipped with 0.1 µm hydrophobic multi-layer air filters, to ensure sterility.

The MACSQuant Tyto Family allows the safe sorting of infectious samples, such as bacteria, yeast, parasites, or potentially contaminated cells.



The sorting process takes place solely within the cartridge, eliminating tedious cleaning steps and simplifying waste disposal.

LEARN MORE



What makes the MACSQuant Tyto Cartridge safe? Discover here!

► miltenyibiotec.com/tyto-biosafety

Choose the cartridge that best fits your needs

Each single-use cartridge is purpose-built to meet diverse sorting needs – whether isolating rare cell populations, handling delicate cells, or processing larger cell types, our solutions ensure safe, gentle sorting with seamless scalability.

High-speed sorting, same precision

In comparison with the standard MACSQuant Tyto Cartridge, the MACSQuant Tyto Cartridge HS is designed for faster sorting speeds, processing samples in significantly less time without compromising cell viability.

Using cutting-edge microfluidics, this cartridge applies inertial cell focusing to ensure accurate laser interrogation and efficient cell sorting.

New cartridge for cell sorting of large cells

Expanding on the high-speed design, the MACSQuant Tyto Cartridge for large cells is optimized for sorting cells between 20–50 µm in diameter, providing reliable sorting performance that preserves cell viability and functionality for large, delicate cells.

MACSQuant Tyto Cartridge	Standard	HS (high speed)	LC (large cells) NEW
Microfluidics			
Inertial cell focusing	No	Yes	Yes
Liquid flow rate	4 mL/h	8 mL/h	7 mL/h
Event rate	Up to 55,000 events/s	Up to 180,000 events/s	Up to 20,000 events/s
Operating pressure	Up to 3 psi	Up to 14 psi	Up to 9 psi
Cell diameter	Up to 20 µm	Up to 20 µm	20–50 µm
GMP compliance			
MACS® GMP version available	Yes	Yes	No
MACSQuantify Tyto Software			
Software requirements	0.5 or higher	0.5 or higher	From 3.2



Explore our expanding cartridge portfolio for research and GMP-compliant cell sorting!
► miltenyibiotec.com/cartridges

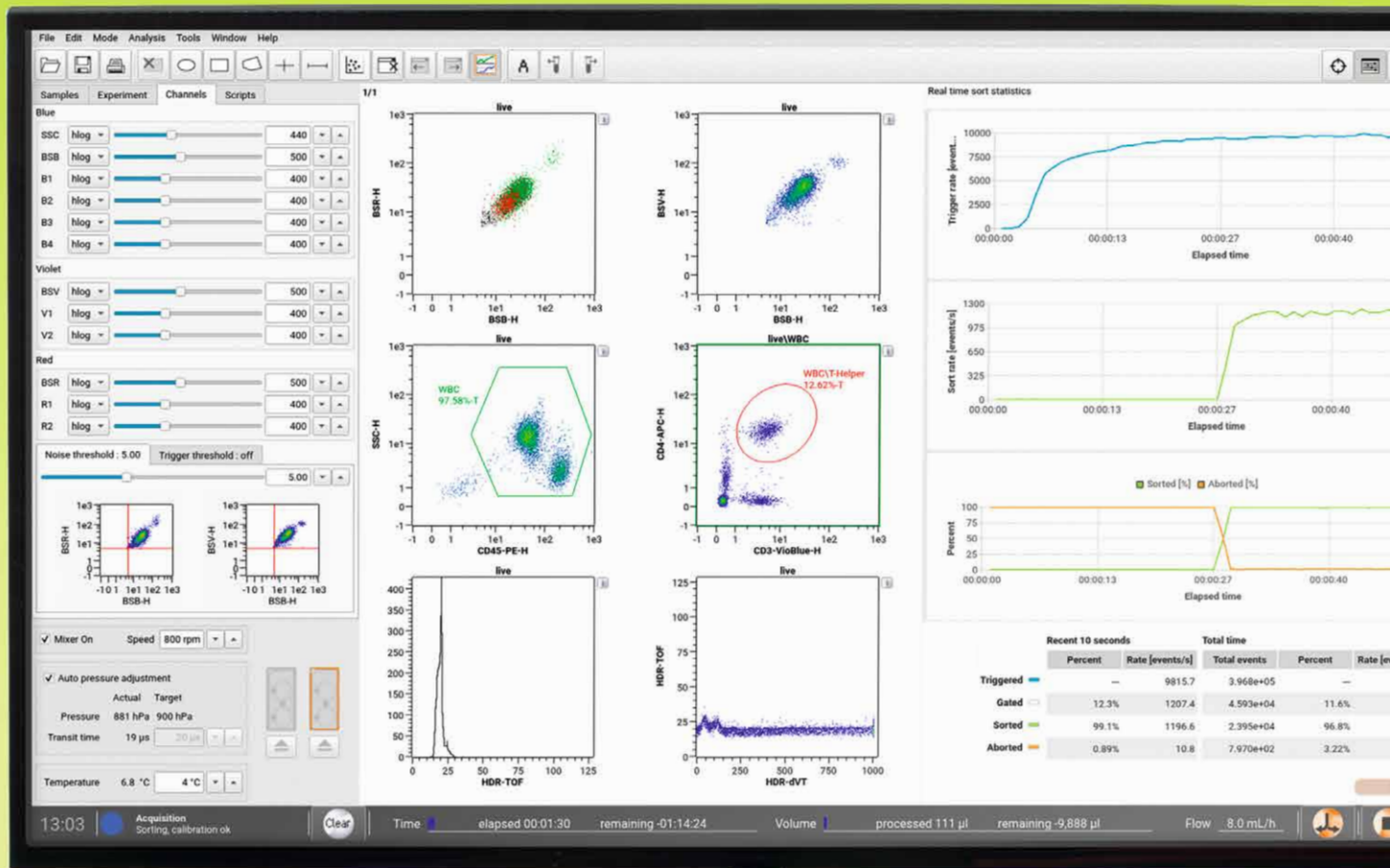
LEARN MORE

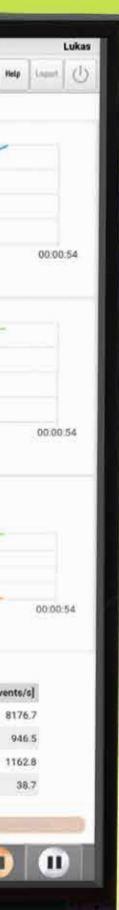


MACSQuantify Tyto Software 3.2

Effortless cell sorting. Seamless compliance.

The latest MACSQuantify Tyto Software 3.2 comes integrated with the MACSQuant Tyto Lux Cell Sorter and is available for the MACSQuant Tyto Cell Sorter. Built on our robust proprietary MBCore operating system and designed with an intuitive interface, this version brings advanced data protection, enhanced standardization, and optimized sorting performance to your workflows.





Data security by design with MBCore

MBCore meets IEC 62304 standards for medical device software, ensuring data integrity through ALCOA+ and the Data Integrity by Design framework.

Multi-instrument alignment

Ensure consistent sorting settings across instruments and locations with automated PMT calibration using Smart Gain technology – for reproducible results and seamless scalability.

Advanced workflow automation

Simplify your workflow and ensure reproducibility with automated fluorescence compensation and automated cartridge priming, enabling reproducibility and saving time.

Optimized sorting performance

Select from four tailored sort modes designed to meet your specific experimental requirements with enhanced precision and efficiency.

Configurable cartridge support

Easily adapt to different applications with support for the multiple MACSQuant Tyto Cartridge types.

21 CFR Part 11 software module

Enable seamless GMP integration with FDA regulatory compliance on electronic records and signatures.

LEARN MORE



Master even the most advanced sorting experiments with MACSQuantify Tyto Software! Explore the software features in detail here.

► miltenyibiotec.com/tyto-software

Achieve the extraordinary

Unlock endless possibilities in sorting applications.

The gentle sorting technology of the MACSQuant Tyto Family paired with the expanding portfolio of versatile cartridges opens up endless application possibilities. Experience the ability to sort different cellular compartments including mitochondria or nuclei, handle sensitive cells such as neurons, or isolate rare antigen-specific T cells. Dive into the data!

LEARN MORE



Immune cells

Sort rare or delicate immune cells, and learn about sequential sorting of PBMCs and TILs.

► miltenyibiotec.com/tyto-immune

LEARN MORE



Tumor cells

Gentle sorting of transfected melanoma cells.

► pubmed.ncbi.nlm.nih.gov/36934113

LEARN MORE



Stem cells

Sort MSCs, HSCs, iPSCs, or NSCs without compromising viability and function.

► miltenyibiotec.com/tyto-stemcells

LEARN MORE



Large cells

High-purity sorting of hepatocytes with the MACSQuant Tyto Cartridge LC.

► miltenyibiotec.com/tyto-hepatocytes





Neurons

Isolate fully functional neurons with optimized workflows.

► miltenyibiotec.com/tyto-neurons

LEARN MORE



Mitochondria

Isolation of intact mitochondria for reliable proteomic analysis.

► pubmed.ncbi.nlm.nih.gov/36286535

LEARN MORE



Biohazardous samples

Safe, contamination-free sorting of bacteria, yeast, pathogens, or infected cells.

► miltenyibiotec.com/tyto-biosafety

LEARN MORE



Cardiomyocytes

Sort cardiomyocytes with high purity and preserved function.

► miltenyibiotec.com/tyto-cardiomyocytes

LEARN MORE



Cells and nuclei for genomics

Achieve superior sample quality with gentle sorting and tailored workflows.

► miltenyibiotec.com/tyto-genomics

LEARN MORE



Retinal cells

Gentle isolation of retinal cells for single-cell RNA sequencing.

► pubmed.ncbi.nlm.nih.gov/34664552

LEARN MORE



Your trusted partner in cell and gene therapy

Successful cell therapies start with functional, high-quality cells. Designed for seamless clinical integration, the MACSQuant Tyto Family delivers GMP-compliant cell sorting with unmatched safety, sterility, and precision. Our MACS GMP Tyto Consumables and MACSQuantify Tyto Software streamline your transition to regulated environments and enable regulatory compliance. Jumpstart your clinical journey with the MACSQuant Tyto Family.



New 21 CFR Part 11 software module

Take a significant step forward by transitioning from tedious manual documentation to effortless, and secure electronic records and signatures, fully meeting the requirements for submission to regulatory agencies like the FDA or EMA. The software module can be enabled by purchasing a separate 21 CFR Part 11 license.

MACS GMP Tyto Consumables

Engineered for clinical excellence, our MACS GMP Tyto Consumables are manufactured and tested according to the quality management system (ISO 13485) and compliant with relevant GMP guidelines, designed following the recommendations of USP <1043> on ancillary materials. All GMP consumables are provided with detailed documentation to streamline regulatory work, including certificates of analysis (CoA), certificates of origin (CoO), and product information files (PIF).

Enable the 21 CFR Part 11 module and benefit from:

- Time-stamped audit trails
- Fully configurable user management system
- Run reports with electronic signature

LEARN MORE



Check out our GMP-compliant workflow solutions!

► miltenyibiotec.com/tyto-gmp

Complete workflow solutions, all in one place

Miltenyi Biotec is an all-in-one provider, offering research tools that enable streamlined workflows, from high-throughput imaging to reproducible sample preparation and cell separation, gentle cell sorting, precise cell analysis, and efficient cell culture solutions, empowering breakthroughs in life sciences and clinical research.

MACS Sample Preparation

Get the best out of your samples! Our smart sample preparation solutions ensure high-quality starting material for reliable downstream results.



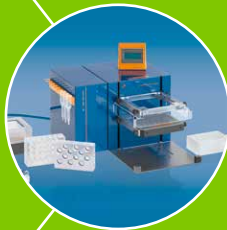
MACS Imaging and Spatial Biology

Uncover the hidden secrets within your samples using our growing Imaging and Spatial Biology portfolio and imaging antibodies.



MACS Cell Separation

Our pioneering cell separation technology enables quick and gentle cell isolation with manual, automated, or robotic solutions.



MACS Flow Sorting

Ensure gentle cell sorting in the safety of a closed cartridge. Expand your sorting possibilities with our solutions for research and clinical settings.



MACS Flow Analysis

Choose the flow cytometer that best fits your research. Simplify your workflows with tailored antibody panels and smart software automation for diverse applications.



MACS Cell Culture and Stimulation

Our versatile cell culture media and reagents are optimized for stimulation, expansion, and differentiation of cells, across diverse applications.



The complete package for reproducible results in flow cytometry

Recombinant antibodies validated for flow cytometry

Our REAfinity® Recombinant Antibodies lead the way in antibody innovation, engineered for unmatched precision and consistency. Build your panels with confidence, using rigorously tested antibodies that set the standard for quality and performance in flow cytometry.



Your vision, your antibody!

Struggling to find an antibody conjugation or formulation that aligns with your research? Reach out to our team to discuss your specific needs. Our Custom Antibody Design Service offers tailored antibody solutions, from purified antibodies to single or multicolor antibody conjugations. Get cost-effective, high-quality solutions and start moving with your next breakthrough in the field!



Releasable antibodies for label-free sorted cells

In research, cell sorting isn't the end – it's just the beginning. With our REAlease® Technology you can isolate your target cells and effortlessly remove their labels, leaving them untouched for your downstream application.



Flow cytometry panel builder: Smarter panels, better results

Design your ideal panel in just a few clicks! Simply set your experimental parameters, and our panel builder instantly delivers optimized recommendations tailored to your research. Fine-tune your settings as needed and set your cell sorting up for success from the start.

VISIT 

For more information about our antibodies, visit:

- ▶ miltenyibiotec.com/reafinity
- ▶ miltenyibiotec.com/REAlease-fluorochromes
- ▶ miltenyibiotec.com/customab
- ▶ miltenyibiotec.com/panel-builder

Expert help is just a click away!

MACSQuant live support

Get real-time, remote assistance from our MACSQuant Application Specialists for analyzers and cell sorters. Available 24/5 worldwide, we're here to troubleshoot, optimize experiments, and guide you to the right Miltenyi Biotec products.

Visit www.miltenyibiotec.com/MQ-livesupport.

Technical support

Get the expert support you need – when you need it! Miltenyi Biotec's Technical Support connects you with specialists who help you troubleshoot, refine your experimental design, and guide you through product selection. Access a wealth of resources, from manuals to protocols, and get personalized assistance to keep your research running smoothly.

Visit www.miltenyibiotec.com/support.

Service contracts for the MACSQuant Tyto Cell Sorter

Keep your cell sorter running at peak performance with our tailored service contracts. Get expert technical support, proactive maintenance, and the latest software updates.

Visit www.miltenyibiotec.com/Tyto-service.

Instrument training

Unlock the full potential of your MACSQuant Tyto Cell Sorter with Miltenyi Biotec's specialized training. Whether you prefer online or hands-on learning, our expert-led courses cover everything you need to master flow cytometry experiments and boost your confidence using our technology and products.

Visit www.miltenyibiotec.com/Flow-training.

Online resources

Explore the Support section on our website and dive into our online resources. From expert technical support to training materials, troubleshooting tips, webinars, and educational documents, everything you need to elevate your research is just a click away.

Visit www.miltenyibiotec.com.

Miltenyi University

Great scientists never stop learning. Explore our educational hub for a variety of training courses and educational materials on topics such as flow cytometry, cell sorting, and advanced experimental techniques.

Visit www.miltenyibiotec.com/miltenyi-university.



MACSQuant Tyto Family: Instrument specifications

	MACSQuant Tyto Cell Sorter	MACSQuant Tyto Lux Cell Sorter
Optics		
Laser excitation	405 nm, 100 mW 488 nm, 100 mW 638 nm, 100 mW	405 nm, 100 mW 488 nm, 100 mW 552nm, 100mW 638 nm, 100 mW
Emission detectors	Channel: V1, V2 B1, B2, B3, B4 R1, R2 Filter: 450/50 nm, 525/50 nm 525/50 nm, 585/40 nm 655-730 nm, 750 nm LP 655-730 nm, 750 nm LP Backscatter and side scatter for detection of size and granularity of cells	Channel: V1, V2, V3, V4 B1, B/Y2, B/Y3, B/Y4, B/Y5 R1, R2, R3 Filter: 448/20 nm, 520/36 nm, 579/34 nm, 641/75 nm 520/36 nm, 579/34 nm, 615/20 nm, 679/75 nm, 785/62 nm 667/30 nm, 725/40 nm, 785/62 nm Backscatter and side scatter for detection of size and granularity of cells
Fluorescence performance	5 decade logarithmic scales, display in lin, log, or hlog scales	
Performance		
Purity	>99%**	
Cell flow rate	Up to 55,000 cells/s for the MACSQuant Tyto Cartridge and up to 180,000 cells/s for the MACSQuant Tyto Cartridge HS	
Sort rate	30,000 valve actuations/s	
Viability	>99% for lymphocytes**	
Sorting mode	Two-way sorting of sorted and non-sorted cells	
Technical support	Built-in live support functionality for reliable support in real time	
Operating pressure	<230 mbar (3 psi) with the MACSQuant Tyto Cartridge and 1100 mbar (<14 psi) with the MACSQuant Tyto Cartridge HS	
Temperature control range	4–25 °C (under standard environmental conditions)	
Carry-over	No sample-to-sample carry-over due to single-use disposable cartridge	
Data management		
Measurement parameters	Height & Area measurements for all parameters	
Signal processing	16-bit analog-to-digital conversion and signal processing	
Operating system	Core i7, 512 GB flash disk, 8 GB DDR4 RAM, Windows® 7 64-bit operating system	Core i7, 2 TB flash disk, 8 GB DDR4 RAM, Miltenyi Biotec's proprietary MBCore operating system, based on Linux®
Compensation	Full 8x8 matrix compensation	Full 12x12 matrix compensation
Data files	mqd (proprietary file type); .fcs (3.1 compatible)	
Operation details		
Dimensions	965 mm × 585 mm × 280 mm without external monitor 965 mm × 585 mm × 760 mm with external monitor	
Weight	62 kg (137 lbs): without external monitor 67 kg (148 lbs): with external monitor	
Monitors	32" display (external) and 15.6" touchscreen (internal)	
Power requirements/consumption	100–240 V~, 50/60 Hz/300 W: without external monitor 100–240 V~, 50/60 Hz/500 W: with external monitor	
Ports	4× USB 2.0, 6× USB 3.0, 2× Ethernet, DVI-D	
Environmental conditions		
Operating temperature/humidity	18–25 °C/0–85% relative humidity, non-condensing	
Emission sound pressure < 70 dB(A) level at workstation	<70 dB(A)	

	MACSQuant Tyto Cell Sorter	MACSQuant Tyto Lux Cell Sorter
Cartridge details		
Quality grade	Cartridges available in research and in MACS GMP Grade	
Sterility	Each cartridge is sterilized using a validated ethylene oxide process and tested to ensure complete sterility	
Aseptic filters	0.1 µm hydrophobic filters at air inlet and outlet ports	
Sorting channel width	25×50 µm (standard and HS), 50×50 µm (LC)	
Maximum loading volume (input)	100 µL–10 mL	
Maximum loading cell number	5×10 ⁷ cells/mL	
Cartridge alignment for laser positioning	Continuous automated cartridge alignment also during the sort	
Cell retrieval	No cell loss, negatively sorted cells are kept in the negative collection chamber	
Barcode labeling	Cartridges are labeled with a barcode for easy identification and traceability	

Product table

Products	Order no.
Instruments	
MACSQuant Tyto Cell Sorter	130-103-931
MACSQuant Tyto Lux Cell Sorter	130-133-903
Research use only (RUO) accessories	
Cartridges	
MACSQuant Tyto Cartridges, 8 pieces	130-104-791
MACSQuant Tyto Cartridges, 24 pieces	130-106-088
MACSQuant Tyto Cartridges HS, 8 pieces	130-121-549
MACSQuant Tyto Cartridges HS, 24 pieces	130-121-551
MACSQuant Tyto Cartridges LC, 8 pieces	130-133-260
Buffers and accessories	
MACSQuant Tyto Sorting Buffer, 1× 100 mL	130-107-206
MACSQuant Tyto Sorting Buffer, 6× 100 mL	130-107-207
MACSQuant Tyto Calibration Beads, 4 mL	130-122-730
GMP-compliant accessories and buffers	
Cartridges	
MACS GMP Tyto Cartridge, 1 piece	170-076-011
MACS GMP Tyto Cartridge HS, 1 piece	170-084-001
Buffers	
MACS GMP PBS/MgCl ₂ Buffer	170-076-155
MACS GMP Tytonase (20× stock solution)	170-076-210
MACSQuantify Tyto Software	
21 CFR Part 11-compliant module - User management system - Audit trail - Run reports with electronic signature	160-003-602

Service contracts

Products	Order no.
MACSQuant Tyto IQ/OQ	160-002-327
MACSQuant Tyto Preventive Maintenance	160-002-051
Pre-Inspection MACSQuant Tyto	160-002-689
MACSQuant Tyto Essential Service	160-002-053
MACSQuant Tyto Extended Warranty	160-002-474
MACSQuant Tyto One-time Prev. Maint.	160-002-052
MACSQuant Tyto OQ	160-002-515
MACSQuant Tyto Installation Service	160-002-055
MACSQuantify Tyto Software Update Service	160-003-797
MACSQuant Tyto Lux Essential Service	160-003-793
MACSQuant Tyto Lux Extended Warranty	160-003-808
MACSQuant Tyto Lux Prev. Maintenance	160-003-815
MACSQuant Tyto Lux Installation Service	160-003-811
MACSQuant Tyto Lux One-Time Prev. Maint.	160-003-812
MACSQuant Tyto Lux IQ/OQ	160-003-813
MACSQuant Tyto Lux OQ	160-003-810
MACSQuant Tyto Lux Pre-Inspection	160-003-809

For more details visit
www.miltenyibiotec.com/tytofamily

**dependent on input sample and Poisson statistics



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