Miltenyi Biotec

Release Notes

Bergisch Gladbach, 2022-04-08

MACSQuantify™ Tyto® Software 1.0

The Software Release Notes shall provide the user with information about software changes, new features, improvements and bug fixes.

In general, MACSQuantify™ Tyto® Software version 1.0 is designed to significantly simplify the sort configuration setup on the MACSQuant® Tyto® Cell Sorter while increasing the sort performance at the same time. For this purpose, SortValveTable and ArrivalWindow Programmers have been removed. Sort trigger now is defined automatically based on backscatter instead of fluorescence signals and also can be manually fine-tuned. In addition, the UI was cleaned up to improve usability, and a new Run Report functionality has been included. Last but not least this release further increases software stability.

The new MACSQuantify Tyto Software 1.0 supports MACSQuant Tyto instrument hardware versions 3.2 to 4.2. Please note: An upgrade of the “Back Scatter Module” might be necessary depending on the hardware status of your instrument. Both, the hardware upgrade as well as the software update will be completed during the next regular service maintenance visit.

New Features

- Sort trigger (“Noise threshold”) is defined automatically based on the improved backscatter instead of fluorescence signals and also can be manually fine-tuned.
- A “Trigger threshold” based on fluorescence signals can still be optionally included into the sorting strategy.
- Noise threshold and Trigger threshold are visualized with plots integrated in the UI.
- The FPGA monitor has been removed, Real Time Sort Statistics are now integrated into the UI.
- A Run Report can be generated after every sort.
- The UI of the software has been revamped with integrated sample flow control.

Miltenyi Biotec B.V. & Co. KG
Friedrich-Ebert-Straße 68
51429 Bergisch Gladbach
Germany
Telefon: +49 2204 8306-0
Fax: +49 2204 85197
E-mail: macsde@miltenyi.com

Sitz der Gesellschaft:
Bergisch Gladbach
Geschäftsführer:
Stefan Miltenyi
Dr. Boris Stoffel
Norbert Hentschel
Dr. Jürgen Schmitz
Dr. Antoon Overstijns

Handelsregister:
Amtsgericht Köln, HRA 34194
UID Nummer: CHE-350.379.565 MWST
Komplementärin:
Miltenyi Biotec Management B.V.
Sitz der Gesellschaft: Leiden (NL)
Handelsregister: KvK No. 75270714

Postbank Saarbrücken | BLZ: 590 100 66
Konto: 901 091 664 | BIC: PBNKDEFFXXX
IBAN: DE07 5901 0066 0901 0916 64
www.miltenyibiotec.com

130-125-809.03

Improvements

- Improved default PMT voltage settings for the backscatters.
- The values in the compensation editor now can be changed via keyboard.
- Accelerated startup time.
- Optimized shutdown procedure.
- Plot default settings are changed to “Density Plot”.
- Cartridge alignment can be aborted by clicking the STOP button.
- Crash report is active by default.

Bug fixes

Bug description	Status
1. HDR-P parameter max. scale cuts off HS cartridge default pressure values.	fixed
2. SW freezes during gain adjustment.	fixed
3. Not all the numbers are displayed in proper format.	fixed
4. The “print selected” function is not functional and deactivated for selection.	fixed
5. The “print all” function is not functional and deactivated for selection.	fixed
6. Gate delete wording is inconsistent.	fixed
7. Scaling issue in density plots – out of bounds events not visualized on border.	fixed