# revvity

# Increase your productivity with high-throughput cell counting.

## Cellaca® MX High-throughput automated cell counter

### Speed

Count up to 24 samples in only 48 seconds with Trypan blue exclusion, and count complex samples with fluorescence in as little as 3 minutes for 24 samples. The Cellaca® MX is one of the fastest cell counters on the market.

### Small sample volume

The small sample size - only 25 µL - required by the Cellaca MX counter makes it possible to readily analyze precious bioprocessing or cell line development samples and enables the same sample source to be used for additional downstream analysis.

### Consistency

High sample to sample and instrument consistency.

### Automation

Standardized API Automation compatibility with automation-ready counting plates.

### Flexibility

Cellaca MX has structured and adaptable software with customizable applications, dashboards, and data templates along with LIMS compatibility for seamless data flow with over 200 cell libraries and 19 different assays.

| Number of samples | Amount of time |
|---|---|
| **Cellaca MX trypan blue** | |
| 24 | 48 seconds |
| 480 | 30 minutes |
| **Other cell counter** | |
| 12 | 36 minutes |
| 480 | 24 hours |

| Feature | Cellaca MX BF | Cellaca MX FL2 | Cellaca MX FL5 | Competitor platform | Competitor legacy platform |
|---|---|---|---|---|---|
| Channels | Brightfield | Brightfield, Green, Red | Brightfield, Blue, Green, Red, Far Red | Brightfield *video imaging through flow | Brightfield *video imaging through flow |
| Number of channels | 1 | 4 | 14 | 1 | 1 |
| Commonly used dyes | Trypan blue | Trypan blue, AO/ PI, Calcein AM/PI | Trypan blue, AO/ PI, Hoechst, DAPI, CFDA, Calcein AM, 7AAD | Trypan blue | Trypan blue |
| Counting speed | 2 sec per sample (24 samples – 48 seconds) | 2 - 17 sec per sample (24 samples - 48 sec with bright field or 3 min with fluorescence) | 2 - 17 sec per sample (24 samples - 48 sec with bright field or 3 min with fluorescence) | 3 min per sample (24 samples - 72 min) * note they list in seconds and it makes it seem minimal | FAST Mode* < 80 sec per sample (24 samples - 32 min) Normal mode 130 sec p/sample (24 samples - 52 min) |
| Volume | 25 µL - 100 µL sample volume 50 µL - 200 µL total well volume | 25 µL - 100 µL sample volume 50 µL - 200 µL total well volume | 25 µL - 100 µL sample volume 50 µL - 200 µL total well volume | 500 µL | 200 µL Normal Mode 170 µL FAST Mode* |
| Suitable for complex primary samples and small immune cells | No | Yes | Yes | No | No |
| Robotics compatible | Yes | Yes | Yes | Yes (custom configuration eliminates 21 CFR Part 11 compliance due to SW validation) | Yes (custom-quoted, but not implemented yet) |
| Regulatory | 21 CFR Part 11 | 21 CFR Part 11 | 21 CFR Part 11 | 21 CFR Part 11 | 21 CFR Part 11 |
| Computer | Windows 10 | Windows 10 | Windows 10 | External PC, Win 7 OS | External PC, Win 7 OS |

"The ease of use and fast, high-throughput capabilities definitely make the Cellaca® MX the best cell counter on the market, even over the Beckman Vi-CELL which I've used for the past decade."

– Jasmine Ta, Eli Lilly

"The Cellaca MX high-throughput cell counter has streamlined the development efforts of our cell therapy product. The instrument combines the accuracy we require for cell viability measurements using the dual live/ dead fluorescent dyes with the automation needed for intensive characterization studies. The time savings for our team with the increased speed and automation will easily justify the cost of the instrument."
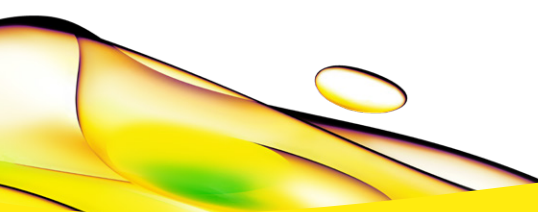
– Will Heaton, DiscGenics

"We were rapidly able to use the Cellaca MX for pipeline PBMC immunology assays integrating both flow cytometry and single-cell genomics platforms. . . .  The ability to run a batch of 24 samples in a single plate has been integrated into our data analysis streams. Solid, reliable cell counter with excellent support from the manufacturer."

– Julian Reading, Allen Institute for Immunology

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