A HIGH-THROUGHPUT AUTOMATED CELL COUNTER

EVE™ HT

AN IDEAL CELL COUNTER YOU CAN TRUST

- **48** Counts
- **3** Minutes
- **20 µL** Samples
- **21** CFR Part 11 Compliance
- High efficiency

NanoEntek

EVE™ HT

A HIGH-THROUGHPUT AUTOMATED CELL COUNTER

Consistent results are essential

EVE™ HT is a high-throughput automated cell counter that can count 48 samples in just 3 minutes. EVE™ HT provides a perfect solution for cell line development and a large scale cell production.

Simple yet Sophisticated Cell Counter

EVE™ HT offer you a better cell counting method.

3 minutes

Results in no time

EVE™ HT only takes 3 minutes to test one plate with 48 samples.

20 µL volume

Considering your valuable samples

Only 20 µL of sample volume is required for cell counts and viability.

48 channels

Up to 48 samples at a time

EVE™ HT counting plate with 48 channels allows you to test up to 48 samples simultaneously.

High efficiency

Run different cell lines with one plate

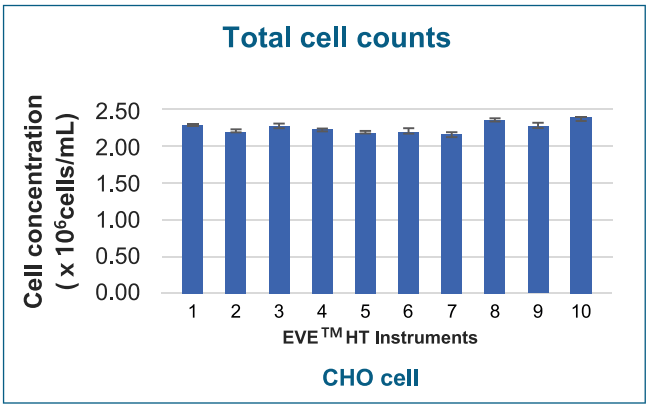
A highly efficient disposable counting plate allows for different cell lines analysis using the same plate and provides multi test results.

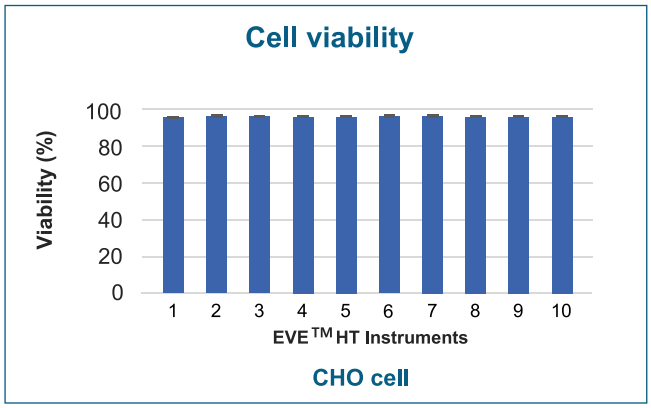
Disposable EVE™ HT assay plate

Manufactured with high precision,
EVE™ HT plate provides time-saving workflow that is easy to use.

High multi-instrument precision for CHO cells

Multiple experiment data for total count and viability using ten EVE™ HT showed high device-to-device comparability.



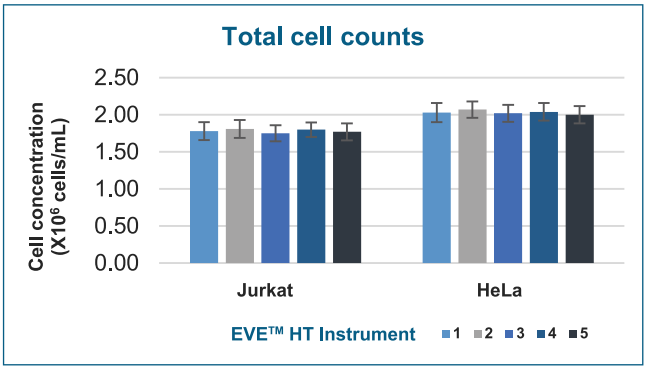


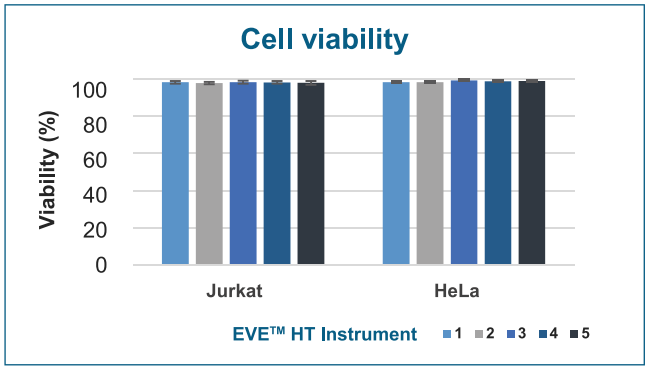
EVE™ HT precision	Cell total count (CV)	
	Average	CV
Well to well	2.18 × 10E6	4.3%
Plate to plate	2.30 × 10E6	3.5%
Instrument to instrument	2.31 × 10E6	0.5%
System-wide precision	2.27 × 10E6	7.0%

EVE™ HT precision	Viability (CV)	
	Average	CV
Well to well	97%	0.9%
Plate to plate	97%	0.3%
Instrument to instrument	96%	0.4%
System-wide precision	97%	0.9%

Low instrument-to-instrument variability

With five EVE™ HT, consistent results have been demonstrated across different instruments.



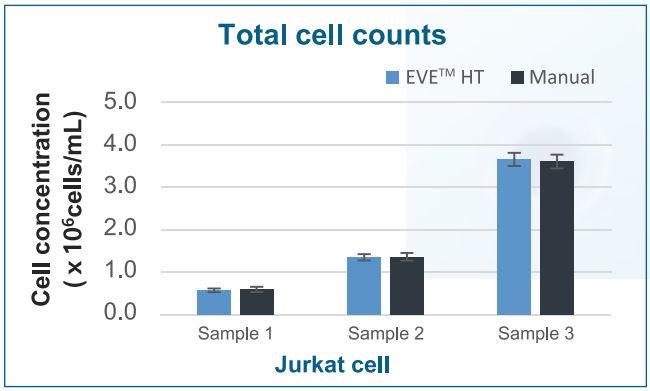


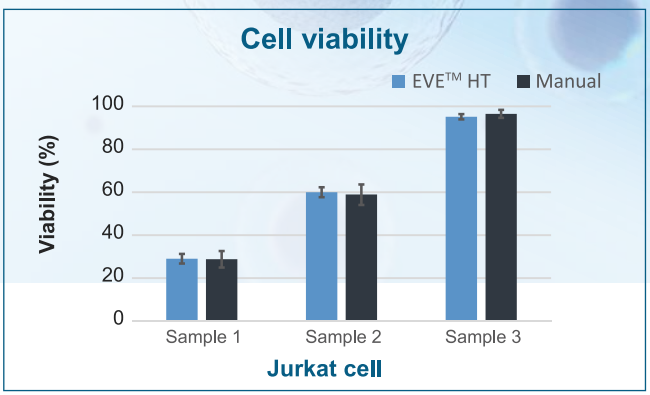
EVE™ HT precision	Cell total count (CV)	
	Jurkat	HeLa
Well to well	4.9%	4.8%
Plate to plate	2.4%	1.2%
Instrument to instrument	1.6%	1.1%
System-wide precision	6.3%	5.9%

EVE™ HT precision	Viability (CV)	
	Jurkat	HeLa
Well to well	0.7%	0.6%
Plate to plate	0.2%	0.1%
Instrument to instrument	0.4%	0.5%
System-wide precision	1.0%	0.7%

Comparision between EVE™ HT and manual counting

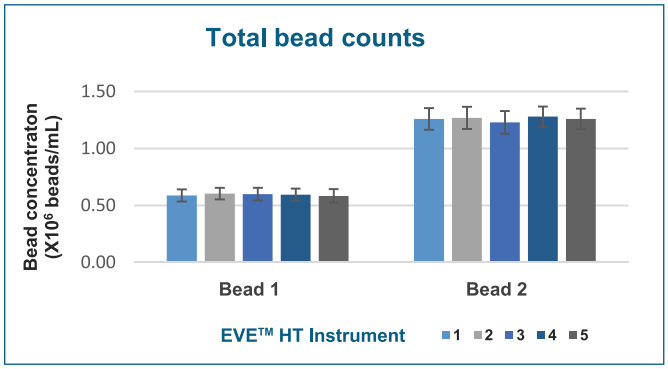
Compared to traditional hemocytometer, EVE™ HT provides highly compatible results in varying concentrations and viabilities.





High instrument-to-instrument consistency

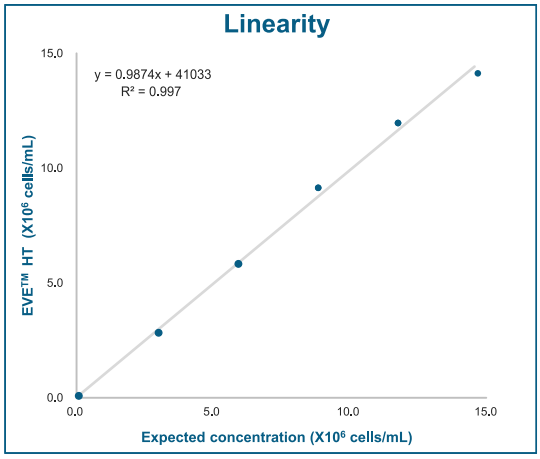
Beads solution stained with trypan blue was loaded into a total of 96 wells of two counting plates for analysis where each plate consists of 48 wells. The same sample was analyzed for comparison using a different instrument.
As a result, high device-to-device comparability was shown.



EVE™ HT precision	Bead total conc. (CV)	
	5 x 10⁵ beads/mL	1 x 10⁶ beads/mL
Well to well	8.1%	6.4%
Plate to plate	0.4%	0.8%
Instrument to instrument	1.5%	1.2%
System-wide precision	9.2%	7.6%

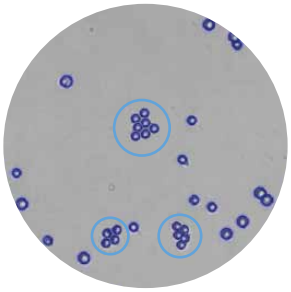
High linearity with expected concentration

Manual counting using hemocytometer was used to compare low and high concentration within optimal range for EVE™ HT linearity test. A high linearity was shown as a result.



Advanced counting – Declustering algorithm

Counting clumped and irregular-shaped cells with declustering algorithm is now available on EVE™ HT.



» With EVE™ HT, you can

- Individually count cells when they are aggregated
- Count each cell based on size and shape
- Exclude debris from results

21 CFR Part 11 Compliance

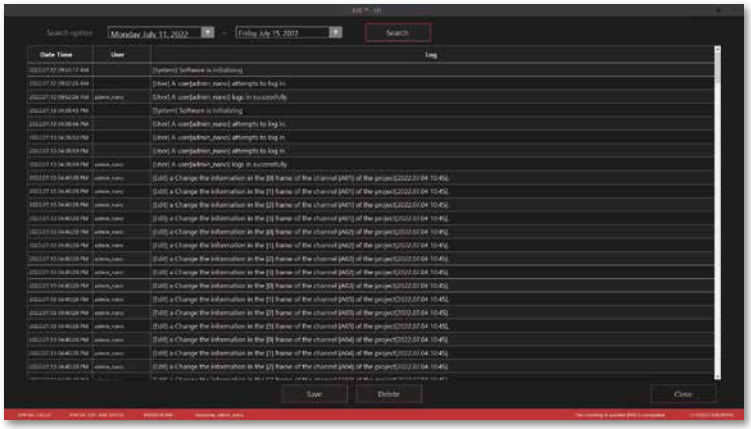
EVE™ HT offers an optional feature to safeguard data integrity required by 21 CFR Part 11. With this feature, not only a company can easily manage users and only give authority to specific users to manage data, but also allows EVE™ HT to save every user activity and create an audit trail.

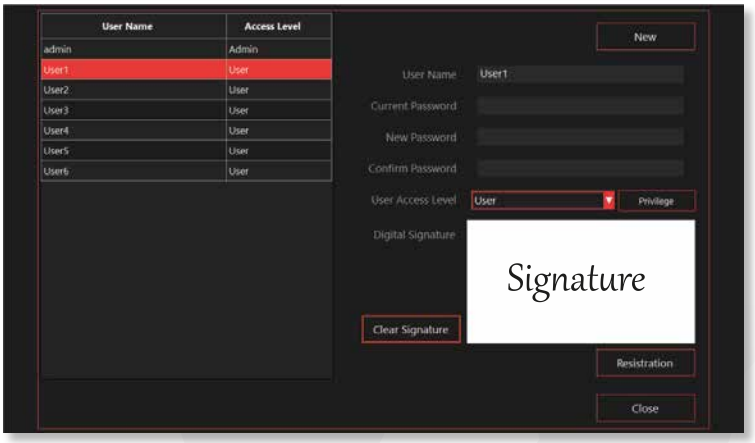
Data integrity

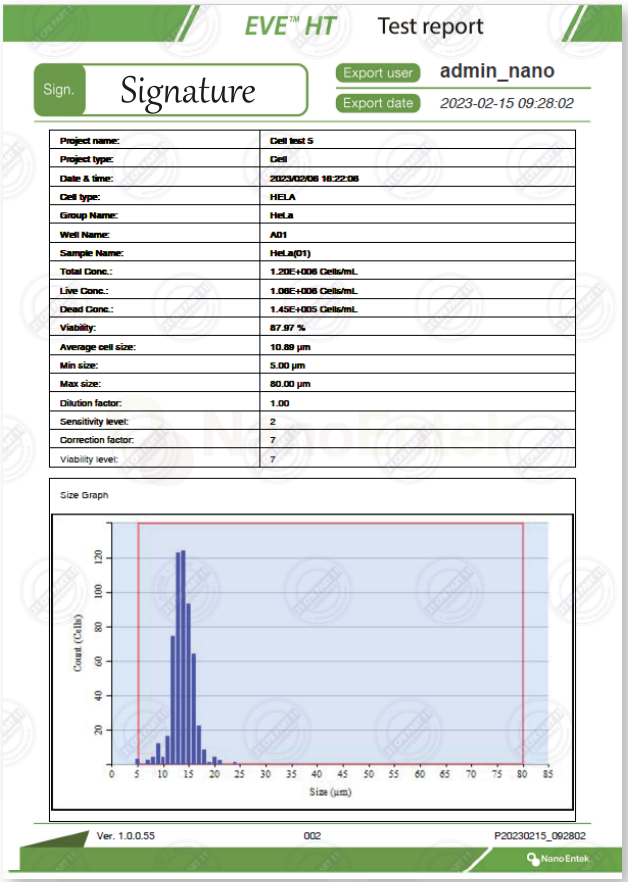
Electronic signatures

User management

Audit trail







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Ordering Information

Catalog. No.	Description
EVE-HT	A High-throughput automated counter, EVE™ HT
EVH-020	EVE™ HT Counting kit · Counting plate (48 channels) · Mixing well plate (96 wells) · Trypan blue stain 0.4% · Reservoir

Catalog. No.	Description
EHPQ-001	EVE™ HT QC plate (Low level)
EHPQ-002	EVE™ HT QC plate (Middle level)
EHPQ-003	EVE™ HT QC plate (High level)
EHPP-001	EVE™ HT Preparation plate (optional)

Specification

Item	Description
Channels (optics)	Bright field
Staining method	Trypan blue
Counting Speed	3 minutes (48 samples)
Loading sample vol.	20 µL / channel
Measurement range	1 x 10^4 ~ 1 x 10^7 cells/mL

Item	Description
Cell size range	5 ~ 80 µm
21 CFR Part 11	Available
Operation System	Windows 10 Enterprise LTSC
Dimensions	588 x 461 x 458 mm (W x L x H)
Weight	58 kg

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FOR RESEARCH USE ONLY.
This product is not approved for diagnostic or therapeutic use.

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