

A HIGH-THROUGHPUT AUTOMATED CELL COUNTER

EVE™ HT

AN IDEAL CELL COUNTER YOU CAN TRUST



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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.

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.

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.

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.

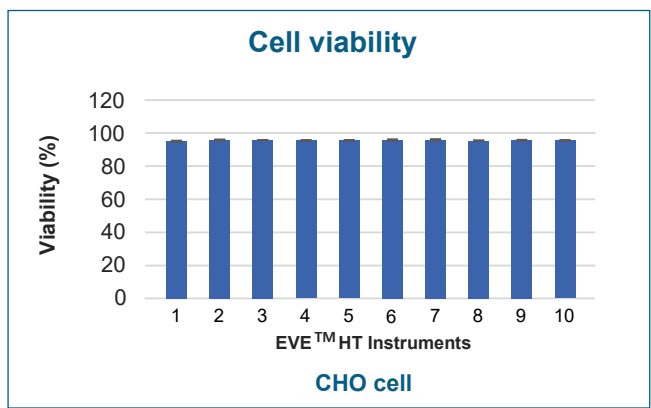
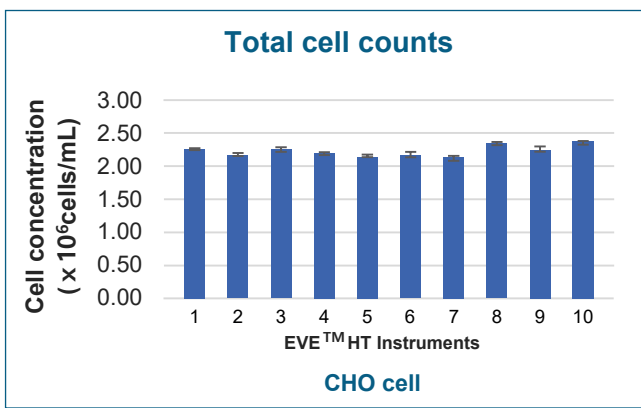


Disposable EVE™ HT assay plate

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.

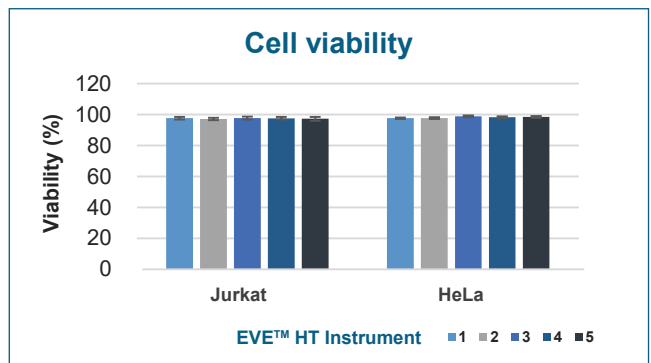
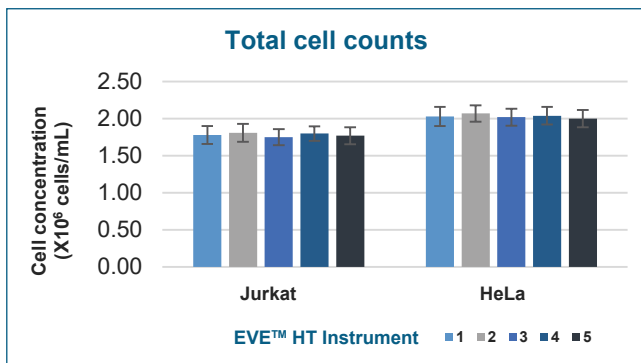


EVE™ HT precision	Cell total count (CV)	
	Average	CV
Well to well	2.18 × 10E6	4.3%
Plate to plate	2.30 × 10E6	3.5%
Instrument to instrument	2.31 × 10E6	0.5%
System-wide precision	2.27 × 10E6	7.0%

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.

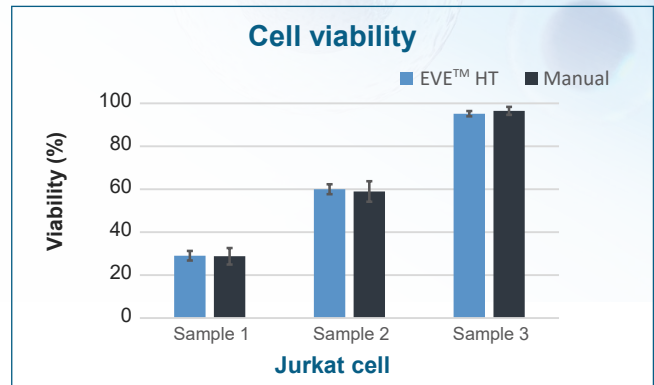
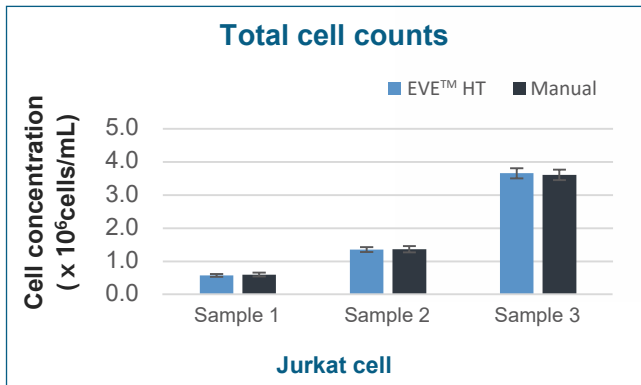


EVE™ HT precision	Cell total count (CV)	
	Jurkat	HeLa
Well to well	4.9%	4.8%
Plate to plate	2.4%	1.2%
Instrument to instrument	1.6%	1.1%
System-wide precision	6.3%	5.9%

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%

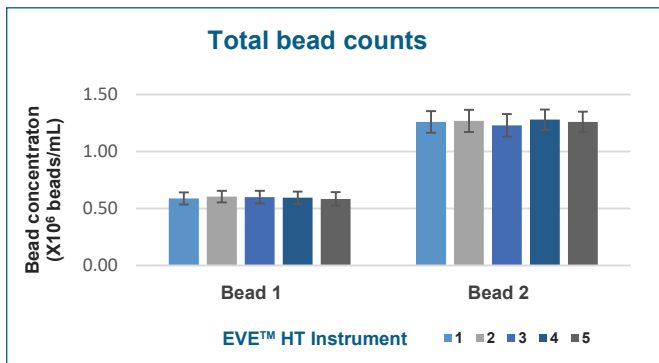
Comparison between EVE™ HT and manual counting

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



High instrument-to-instrument consistency

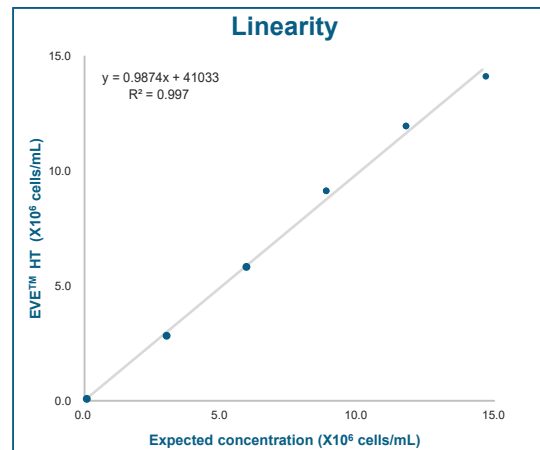
Beads solution stained with trypan blue was loaded into a total of 96 wells of two counting plates for analysis where each plate consists of 48 wells. The same sample was analyzed for comparison using a different instrument. As a result, high device-to-device comparability was shown.



EVE™ HT precision	Bead total conc. (CV)	
	5 x 10 ⁵ beads/mL	1 x 10 ⁶ 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%

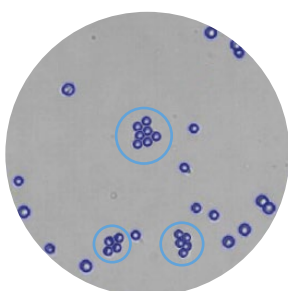
High linearity with expected concentration

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.

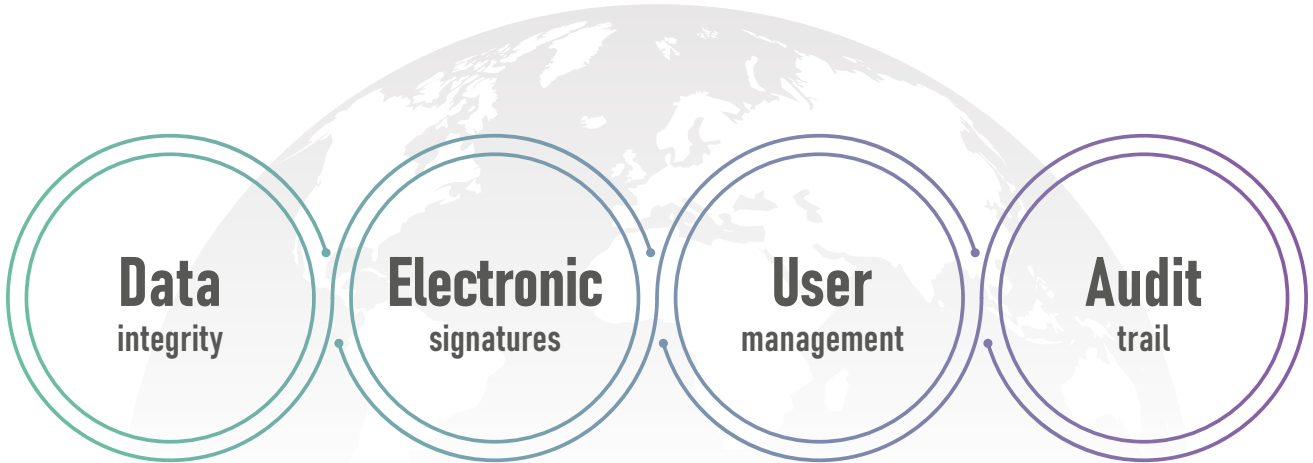


» With EVE™ HT, you can

- 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.



Date Time	User	Log
20220713 09:53:17 AM		[System] Software is Initializing
20220713 09:53:26 AM		[User] A user(admin_nano) attempts to log in.
20220713 09:53:26 AM	admin_nano	[User] A user(admin_nano) logs in successfully.
20220713 09:53:43 PM		[System] Software is Initializing
20220713 09:53:46 PM		[User] A user(admin_nano) attempts to log in.
20220713 09:53:50 PM		[User] A user(admin_nano) attempts to log in.
20220713 09:53:53 PM		[User] A user(admin_nano) attempts to log in.
20220713 09:53:53 PM	admin_nano	[User] A user(admin_nano) logs in successfully.
20220713 09:54:28 PM	admin_nano	[User] Change the information in the [0] Name of the channel [A01] of the project[2022.07.04.10.45].
20220713 09:54:28 PM	admin_nano	[User] Change the information in the [1] Name of the channel [A01] of the project[2022.07.04.10.45].
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User Name	Access Level
admin	Admin
User1	User
User2	User
User3	User
User4	User
User5	User
User6	User

User Name: User1
 Current Password:
 New Password:
 Confirm Password:
 User Access Level: User
 Digital Signature:

EVE™ HT
Test report

Sign. Signature

admin_nano
 2023-02-15 09:28:02

Project name:	Cell test 5
Project type:	Cell
Date & time:	2023/02/08 16:22:08
Cell type:	HELA
Group Name:	HELA
Well Name:	A01
Sample Name:	HELA(01)
Total Conc.:	1.20E+006 Cells/mL
Live Conc.:	1.08E+006 Cells/mL
Dead Conc.:	1.45E+005 Cells/mL
Viability:	87.87 %
Average cell size:	10.89 µm
Min size:	5.00 µm
Max size:	80.00 µm
Dilution factor:	1.00
Sensitivity level:	2
Correction factor:	7
Viability level:	7

Size Graph

Ver. 1.0.0.55
002
P20230215_092802



Ordering Information

Cat. No.	Product
EVE-HT	A High-throughput automated counter, EVE™ HT
EVH-020	EVE™ HT Counting kit <ul style="list-style-type: none"> · Counting plate (48 channels) · Mixing well plate (96 wells) · Trypan blue stain 0.4% · Reservoir

Cat. No.	Product
EHPQ-001	EVE™ HT QC plate - Low level (Optional)
EHPQ-002	EVE™ HT QC plate - Middle level (Optional)
EHPQ-003	EVE™ HT QC plate - High level (Optional)
EHPP-001	EVE™ HT Preparation plate (Optional)

Specification

Item	Product
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	Product
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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