

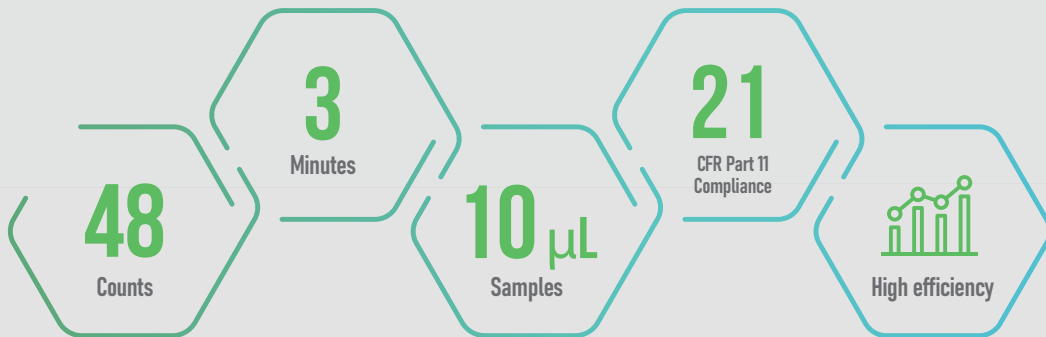
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**SCIENCE
SERVICES**

A HIGH-THROUGHPUT AUTOMATED CELL COUNTER

EVE™ HT

AN IDEAL CELL COUNTER YOU CAN TRUST



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.

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.

10 µL volume

Considering your valuable samples

Only 10 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.

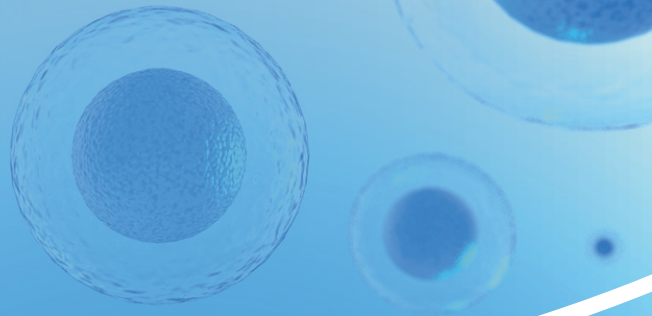
48x

3
min



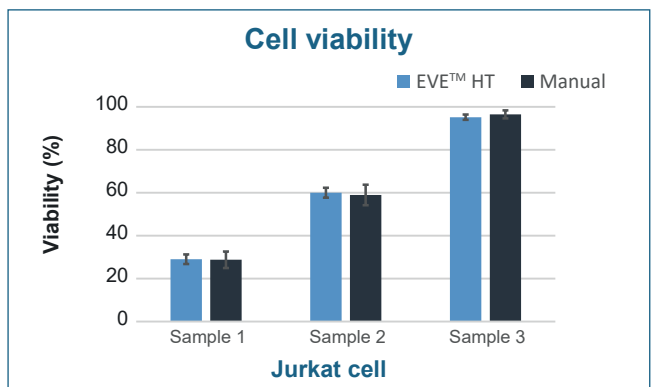
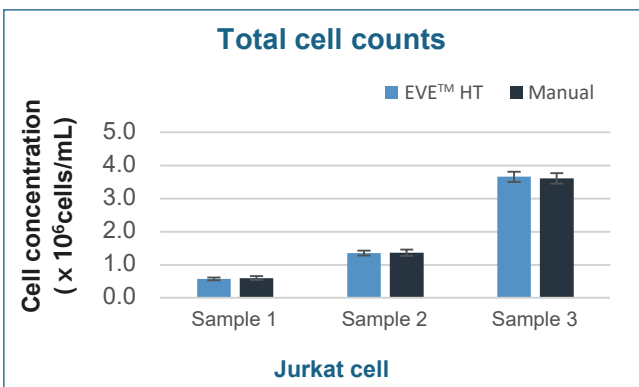
Disposable EVE™ HT assay plate

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



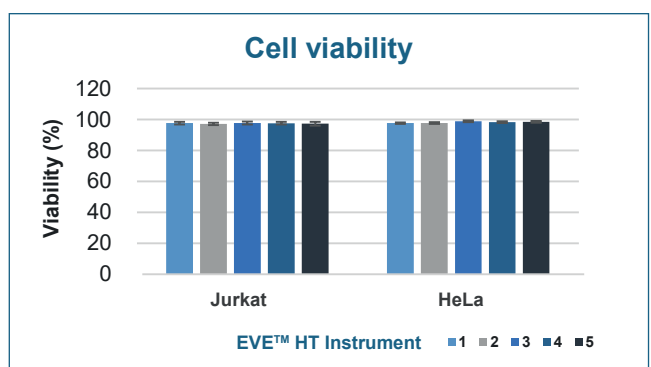
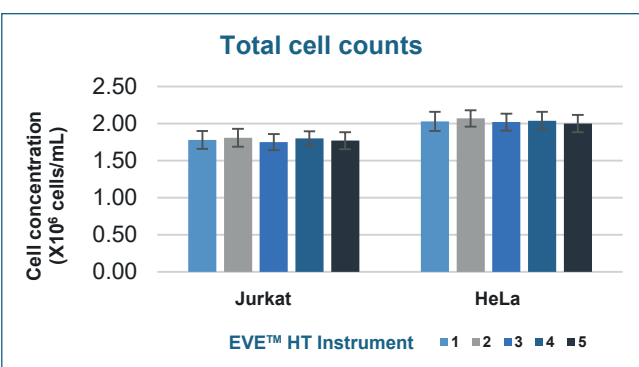
High correlation between EVE™ HT and manual counting

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



Low instrument-to-instrument variability

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

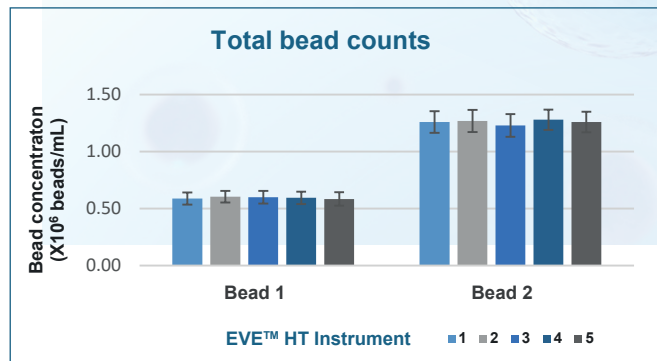


EVE™ HT precision	Cell total count (CV)	
	Jurkat	HeLa
Well to well	4.9%	4.8%
Plate to plate	2.4%	1.2%
Instrument to instrument	1.6%	1.1%
System-wide precision	6.3%	5.9%

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%

High instrument-to-instrument consistency

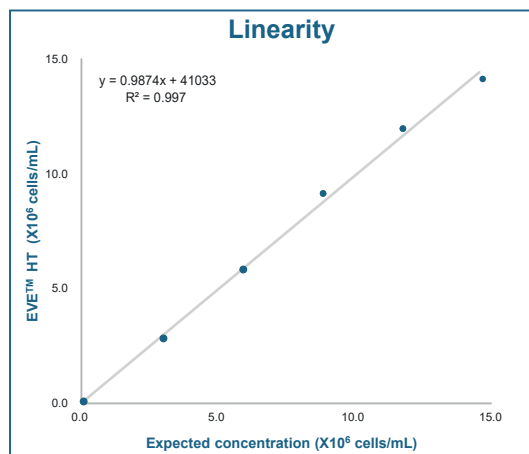
Beads solution stained with trypan blue was loaded into a total of 96 wells of two counting plates for analysis where each plate consists of 48 wells. The same sample was analyzed for comparison using a different instrument. As a result, high device-to-device comparability was shown.



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%

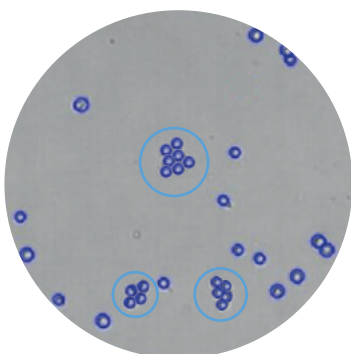
High linearity with expected concentration

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.

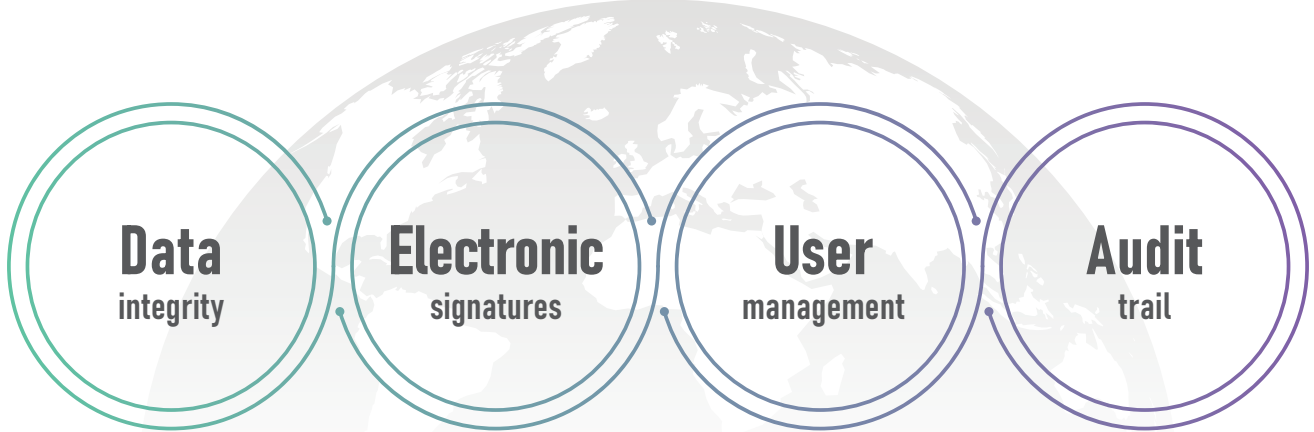


» With EVE™ HT, you can

- 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
20220712 09:03:17 AM	System	System Software is Initializing
20220712 09:03:26 AM	Root	A user(admin_name) attempts to log in.
20220712 09:03:26 AM	admin_name	Root: A user(admin_name) log in successfully.
20220712 04:00:02 PM	System	System Software is Initializing
20220712 04:00:06 PM	Root	A user(admin_name) attempts to log in.
20220712 04:00:06 PM	Root	A user(admin_name) attempts to log in.
20220712 04:00:09 PM	Root	A user(admin_name) attempts to log in.
20220712 04:00:09 PM	admin_name	Root: A user(admin_name) log in successfully.
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User Name	Access Level
admin	Admin
User1	User
User2	User
User3	User
User4	User
User5	User
User6	User

User Name:

Current Password:

New Password:

Confirm Password:

User Access Level:

Digital Signature:

Signature

EVE™ HT Cell counting result

Sign Signature

Project name:	jurkat bnh
Project type:	Cell
Date & time:	2021/08/05 14:32:08
Cell type:	admin_nano
Well Name:	F01
Sample Name:	
Total Conc.:	1.17E+006 Cells/mL
Live Conc.:	5.20E+005 Cells/mL
Dead Conc.:	6.54E+005 Cells/mL
Viability:	44.31 %
Average cell size:	12.87 μm
Min size:	5.00 μm
Max size:	78.00 μm
Dilution factor:	1.00

Circle On Image

Circle Off Image

1.0.0.11 P2022.01.14 11.35.19 1 Nano Entek



Ordering Information

Catalog. No.	Description
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

Specification

Item	Description
Channels (optics)	Bright field
Staining method	Trypan blue
Counting Speed	3 minutes (48 samples)
Loading sample vol.	10 µL / channel
Measurement range	1 x 10 ⁴ ~ 2 x 10 ⁷ cells/mL
Optimal measurement range	1 x 10 ⁵ ~ 1 x 10 ⁷ cells/mL

Item	Description
Cell size range	1 ~ 85 µm
Optimal cell size range	5 ~ 80 µm
21 CFR Part 11	Available
Operation System	Windows 10 and 11
Dimensions	586 x 477 x 458 mm (W x L x H)
Weight	40 kg

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