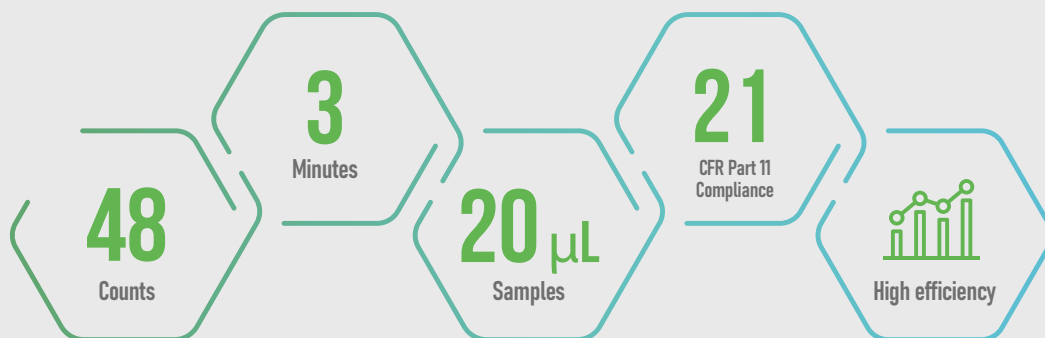


A HIGH-THROUGHPUT AUTOMATED CELL COUNTER

# 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.

#### 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.

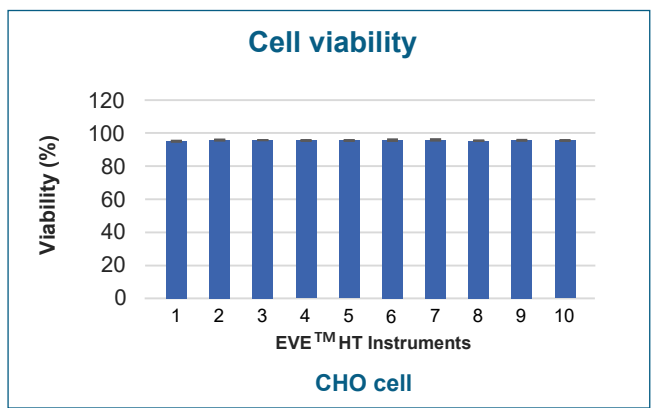
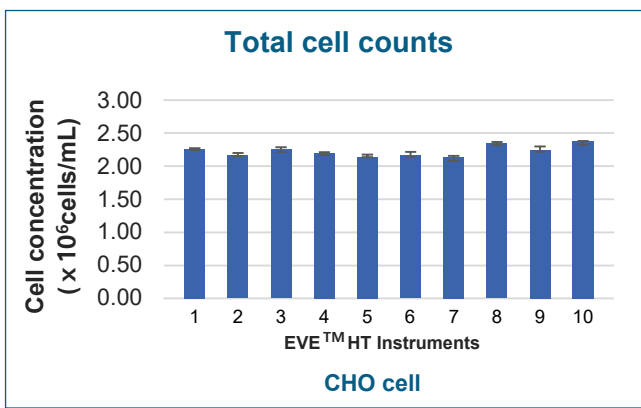


# Disposable EVE™ HT assay plate

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.

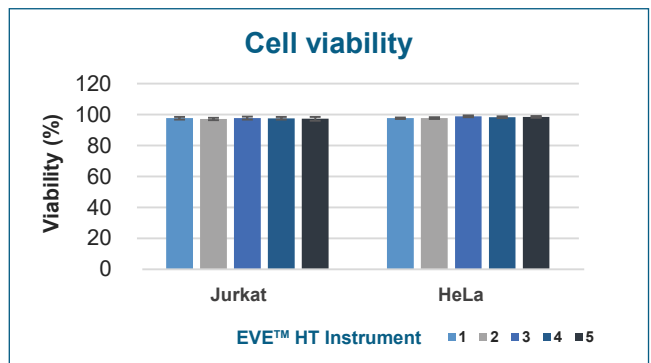
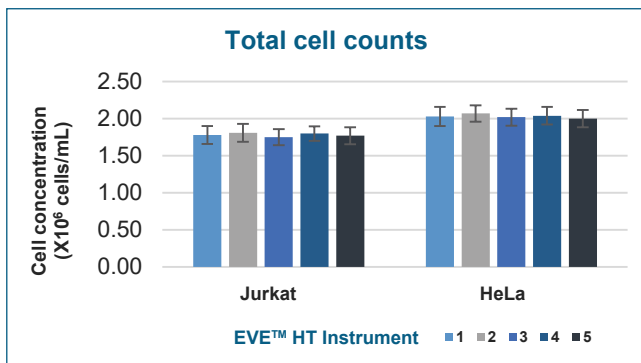


| EVE™ HT precision        | Cell total count (CV) |      |
|--------------------------|-----------------------|------|
|                          | Average               | CV   |
| Well to well             | 2.18 × 10E6           | 4.3% |
| Plate to plate           | 2.30 × 10E6           | 3.5% |
| 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.

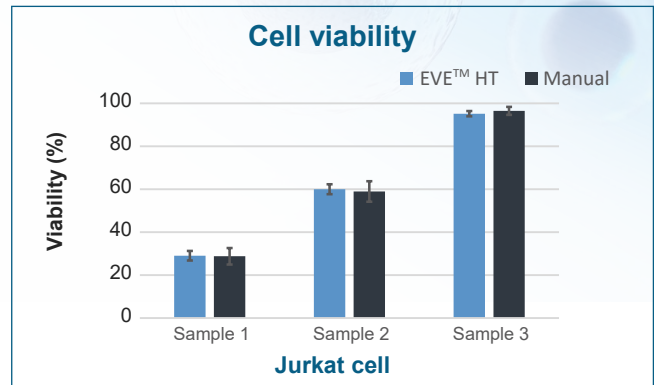
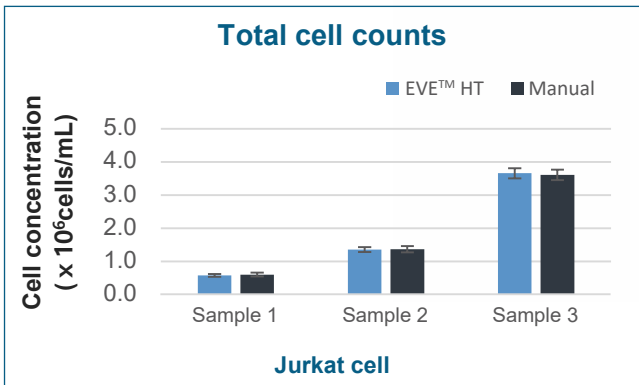


| EVE™ HT precision        | Cell total count (CV) |      |
|--------------------------|-----------------------|------|
|                          | Jurkat                | HeLa |
| Well to well             | 4.9%                  | 4.8% |
| Plate to plate           | 2.4%                  | 1.2% |
| 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% |

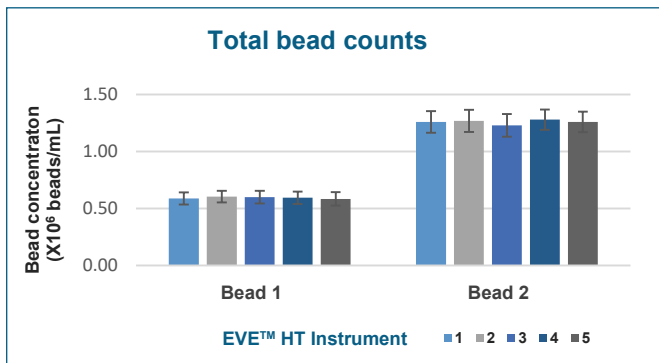
## Comparison between EVE™ HT and manual counting

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



## High instrument-to-instrument consistency

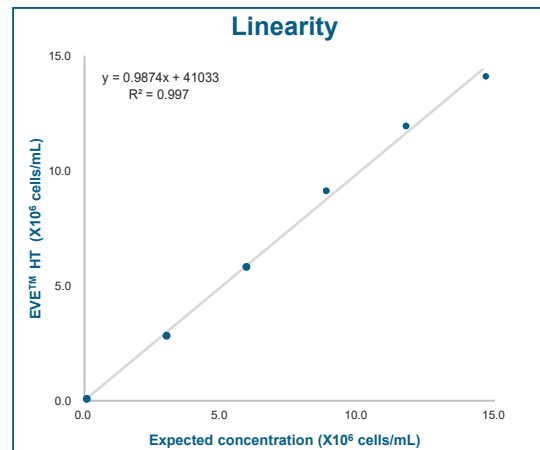
Beads solution stained with trypan blue was loaded into a total of 96 wells of two counting plates for analysis where each plate consists of 48 wells. The same sample was analyzed for comparison using a different instrument. As a result, high device-to-device comparability was shown.



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

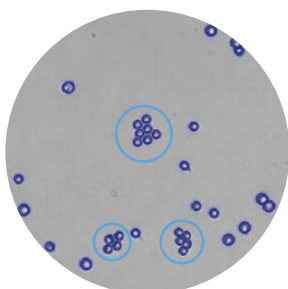
## High linearity with expected concentration

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.

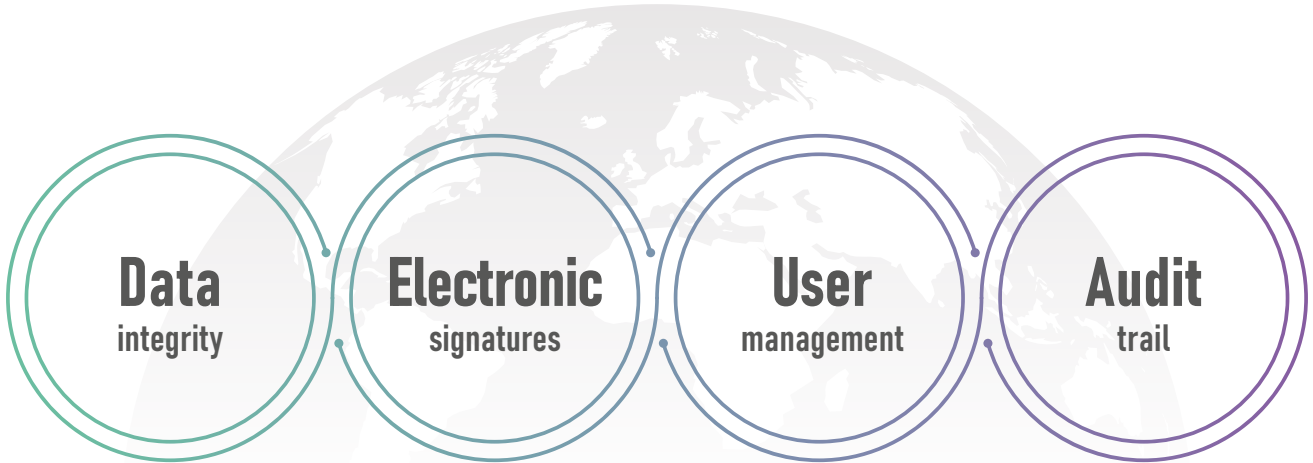


### » With EVE™ HT, you can

- 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 | [E] [E] a Change the information in the [0] Name of the channel [A01] of the project[2022.07.04.1045].  |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [1] Name of the channel [A01] of the project[2022.07.04.1045].  |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [2] Name of the channel [A02] of the project[2022.07.04.1045].  |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [3] Name of the channel [A03] of the project[2022.07.04.1045].  |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [4] Name of the channel [A04] of the project[2022.07.04.1045].  |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [5] Name of the channel [A05] of the project[2022.07.04.1045].  |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [6] Name of the channel [A06] of the project[2022.07.04.1045].  |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [7] Name of the channel [A07] of the project[2022.07.04.1045].  |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [8] Name of the channel [A08] of the project[2022.07.04.1045].  |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [9] Name of the channel [A09] of the project[2022.07.04.1045].  |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [10] Name of the channel [A10] of the project[2022.07.04.1045]. |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [11] Name of the channel [A11] of the project[2022.07.04.1045]. |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [12] Name of the channel [A12] of the project[2022.07.04.1045]. |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [13] Name of the channel [A13] of the project[2022.07.04.1045]. |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [14] Name of the channel [A14] of the project[2022.07.04.1045]. |
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| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [18] Name of the channel [A18] of the project[2022.07.04.1045]. |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [19] Name of the channel [A19] of the project[2022.07.04.1045]. |
| 20220713 09:54:28 PM | admin_nano | [E] [E] a Change the information in the [20] Name of the channel [A20] of the project[2022.07.04.1045]. |

| 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
Export user admin\_nano

Export date 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  |
|----------------|--|
| <b>EVE-HT</b>  | A High-throughput automated counter, EVE™ HT   |
| <b>EVH-020</b> | EVE™ HT Counting kit <ul style="list-style-type: none"> <li>· Counting plate (48 channels)</li> <li>· Mixing well plate (96 wells)</li> <li>· Trypan blue stain 0.4%</li> <li>· Reservoir</li> </ul> |

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

### Specification

| Item                       | Product  |
|----------------------------|--|
| <b>Channels (optics)</b>   | Bright field                                       |
| <b>Staining method</b>     | Trypan blue  |
| <b>Counting Speed</b>      | 3 minutes (48 samples)                             |
| <b>Loading sample vol.</b> | 20 µL / channel                                    |
| <b>Measurement range</b>   | 1 x 10 <sup>4</sup> ~ 1 x 10 <sup>7</sup> cells/mL |

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

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