# **Count with confidence, Count with EVE HT FL!**



# EVETHIEL

High-throughput

# Fluorescence Cell Counter

- Primary Cells
- PBMCs
- Stem Cells
- Cell Lines



#### Introduction

EVE<sup>™</sup> HT FL is a high-throughput automated fluorescence cell counter equipped with **bright field** and **dual fluorescence channels (AO/DAPI)**. In just **3 minutes**, up to **48 samples** can be counted and analyzed. EVE<sup>™</sup> HT FL delivers precise and accurate results, making it the best option for both cell lines and primary cell counting in a variety of applications.

#### **Features**



### **Level Up Your Productivity**

In just 3 minutes, up to 48 samples can be counted simultaneously.

Don't wait! Count your samples in 3 minutes.

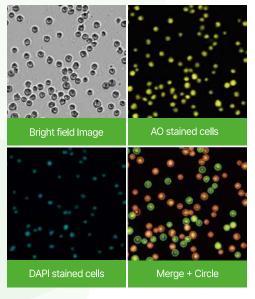
Leading to substantial time saving by eliminating the need for frequent reloading and waiting periods.

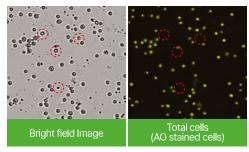
### **Small Sample Volume**

EVE<sup>™</sup> HT FL only needs **20 µL** of your valuable samples. Save your cells for more measurements or better outcome.



### **Dual fluorescence for accurate measurements of primary cells or PBMCs**





# Counting PBMCs ONLY!

based counting.

PBMCs are often mixed with RBCs or platelets. Use EVE HT FL to count only nucleated cells such as PBMCs.
Fluorescence based counting is more accurate than traditional Trypan Blue

### **Diverse Cell Counting Applications**

Primary Cells

PBMCs

Cell Lines

Stem Cells

Hepatocytes

Leukocytes

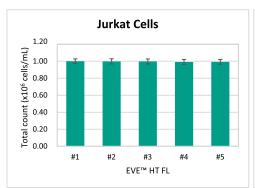
Splenocytes

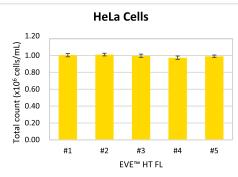
Adipocytes

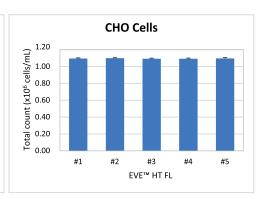
# **Accurate and Precise Results**

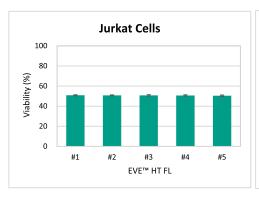
# **Instrument-to-instrument Variability with Cell Lines**

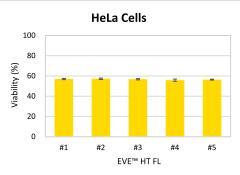
5 EVE™ HT FL instruments were put to the test using three different cell line samples (Jurkat, HeLa, and CHO) to compare their differences. The results below show very low instrument-to-instrument variability.

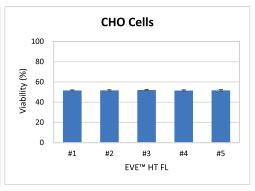












Jurkat	Total count (CV)	Viability (CV)
Instrument to instrument	0.44%	0.21%
Plate to plate	2.77%	0.99%
Whole result	5.70%	4.38%

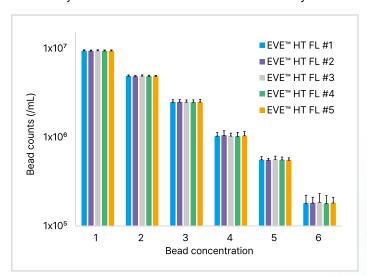
HeLa	Total count (CV)	Viability (CV)	
Instrument to instrument	1.14%	0.91%	
Plate to plate	1.45%	0.85%	
Whole result	5.29%	3.73%	

	СНО	Total count (CV)	Viability (CV)		
	Instrument to instrument	0.24%	0.37%		
	Plate to plate	0.58%	1.07%		
_	Whole result	5.33%	4.28%		

<sup>\*</sup>Whole result: CV value was calculated by combining a total of 400 results measured 16 times each on 5 instruments and 5 plates.

## **Instrument-to-instrument Variability with Beads**

5 EVE™ HT FL were used to measure fluorescent reference beads(for AO channel) at 6 different concentrations. The results below show very little instrument-to-instrument variability.

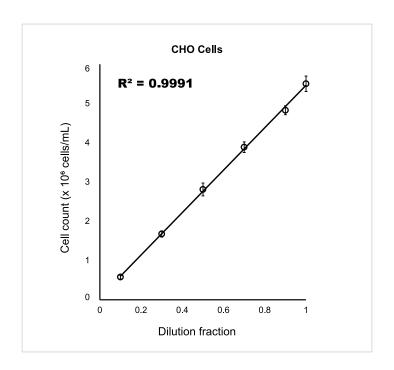


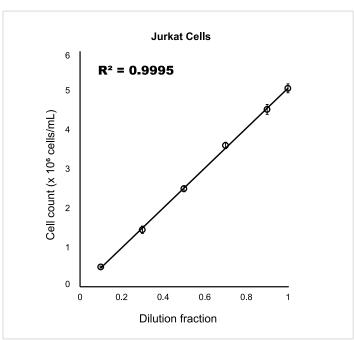
	Bead 1	Bead 2	Bead 3	Bead 4	Bead 5	Bead 6
Instrument to instrument (CV)	0.17 %	0.28 %	0.28 %	1.02 %	0.98 %	1.04 %



# **Excellent Linearity Across Wide Range**

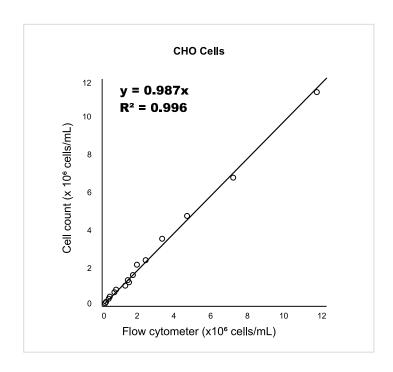
Following ISO standard for cell counting, we evaluated linearity of  $EVE^{TM}$  HT FL using 2 cell lines (CHO cells and Jurkat cells). The following results demonstrate outstanding linearity.

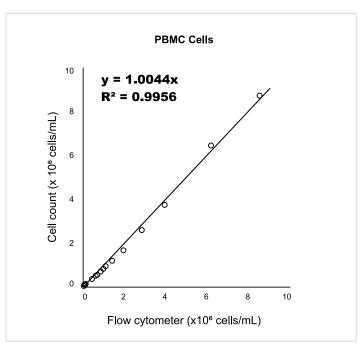




# **High Correlation Between EVE™ HT FL and a Flow Cytometer**

Cell samples were measured using EVE™ HT FL and a flow cytometer. For both CHO cells and PBMCs, total cell counts measured by EVE™ HT FL were highly correlated with those measured by a flow cytometer.





### 21 CFR Part 11 Compliance READY

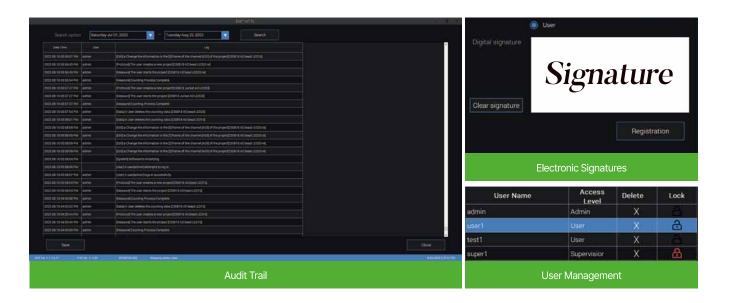
EVE™ HT FL is ready for 21 CFR part 11 compliance for cGMP facilities.

**Electronic Records** 

**Audit Trails** 

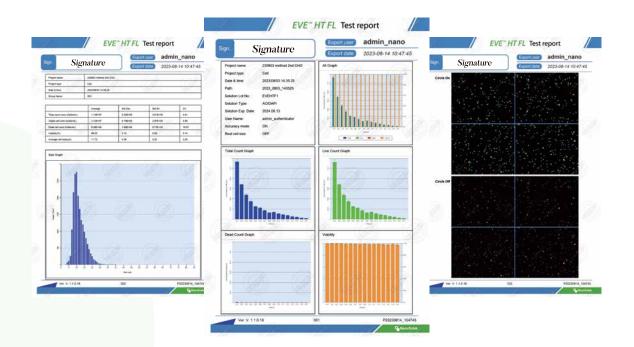
**Electronic Signatures** 

**User Management** 



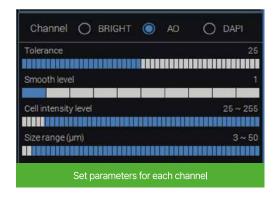
### **Data Analysis Report**

Results can be easily saved as a PDF report and your data can be easily shared with anyone. Also, more detailed results and raw images can be exported in CSV and JPG files to help you run more extensive data analysis or prepare presentations.



### **Customizable Setting for Cell Counting**

Users can customize image analysis parameters which can be saved and easily imported for next measurements. This feature allows users to find best sets of parameters that help identify only those cells of their interest and minimize the effects of non-cell debris or unwanted subtypes of cells.





No.	Cat. No	Product	Contents	
1	EVE HT FL	High-throughput fluorescence cell counter	Main device 1 ea Desktop & monitor 1 set Multi pipette 1 ea	
2	EVFL-020	EVFL-020  EVE HT FL Counting kit  960 tests / kit Counting plates (48 Mixing well plates (5 Reservoirs (5 pcs ×		
3 EVAD-960 AO/DAPI Staining solution		Acridine orange (AO) & 4',6-diamidino-2-phenylindole (DAPI) stain 20 mL x 2 bottles		

# **Specifications**

Analysis Time	3 ~ 6 minutes for 48 samples	Operation System	Windows 10
Measuring Range	Detectable range: $1 \times 10^4 \sim 2 \times 10^7$ cells/mL Optimal range: $1 \times 10^5 \sim 1 \times 10^7$ cells/mL	Power	100 ~ 240V, 50/60Hz
	Optimal range. 1 × 10 × 1 × 10 cells/inc	Dimensions	586 × 461 × 458 mm (W×D×H)
Cell Size Range	Detectable size: 5 ~ 85 µm Optimal size: 5 ~ 80 µm	Weight	58 kg
Channel	el Dual fluorescence channels (AO & DAPI)		AO/DAPI mixed solution (EVAD-960)
Loading Sample Volume	20 µL per channel	21 CFR Part 11 Compliance	Available (Optional)



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

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