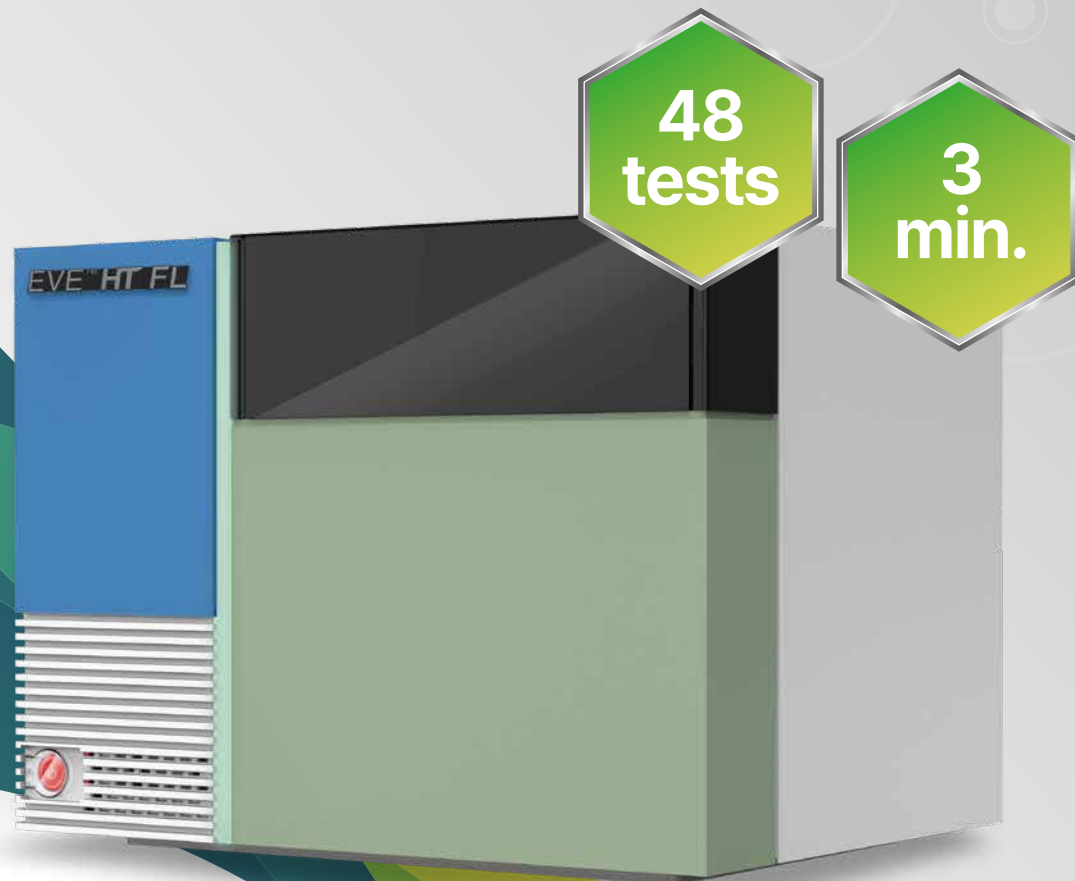


High-throughput Fluorescence Cell Counter



EVETM HT FL

- Primary Cells
- PBMCs
- Stem Cells
- FFPE-derived nuclei
- Yeast Cells
- Cell Lines (CHO, HEK293, etc.)

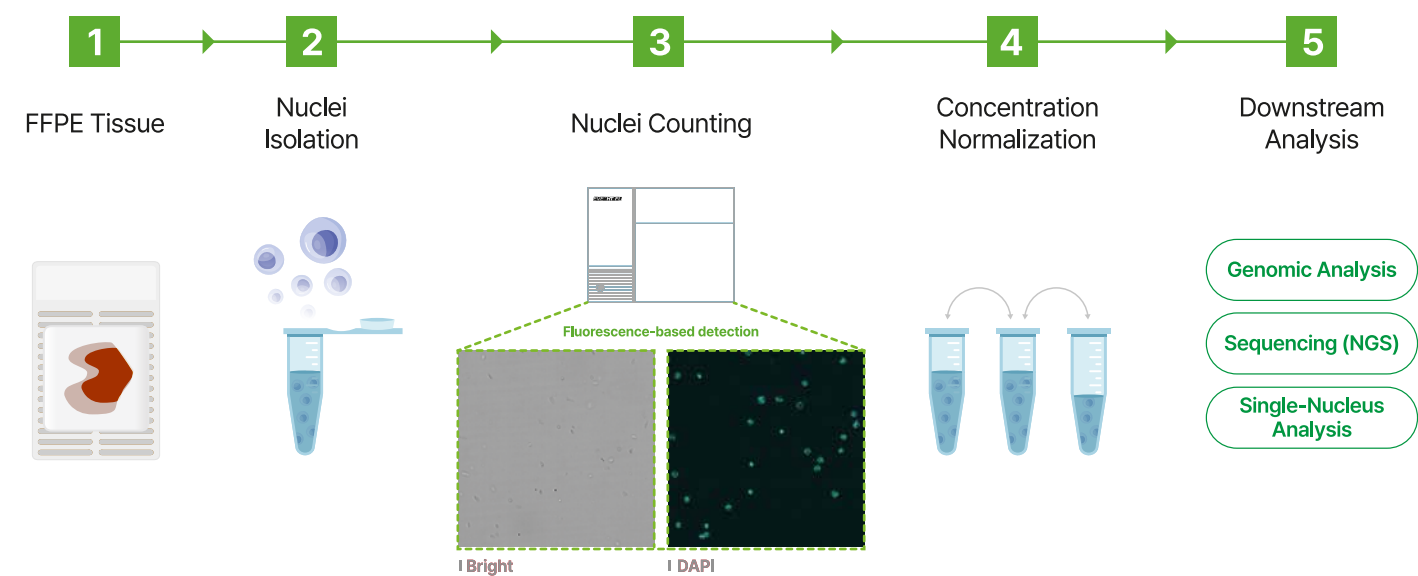
Application

FFPE-Derived Nuclei Counting Reliable Nuclei Quantification for Downstream Analysis

FFPE tissues are a valuable source of preserved biological information for genomic and molecular research. Following nuclei isolation, accurate nuclei counting and concentration normalization are essential steps for consistent downstream analysis.

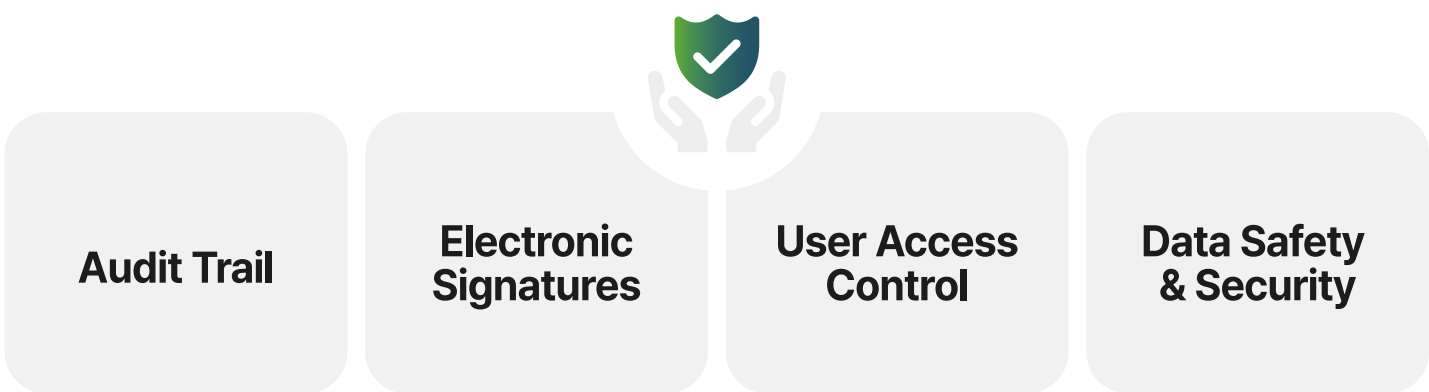
EVE™ HT FL features a dedicated FFPE mode optimized for accurate nuclei counting and sample QC, enabling fluorescence-based detection and quantification of FFPE-derived nuclei for efficient concentration normalization and downstream analysis.

FFPE-Derived Nuclei Counting



21 CFR Part 11 Compliance

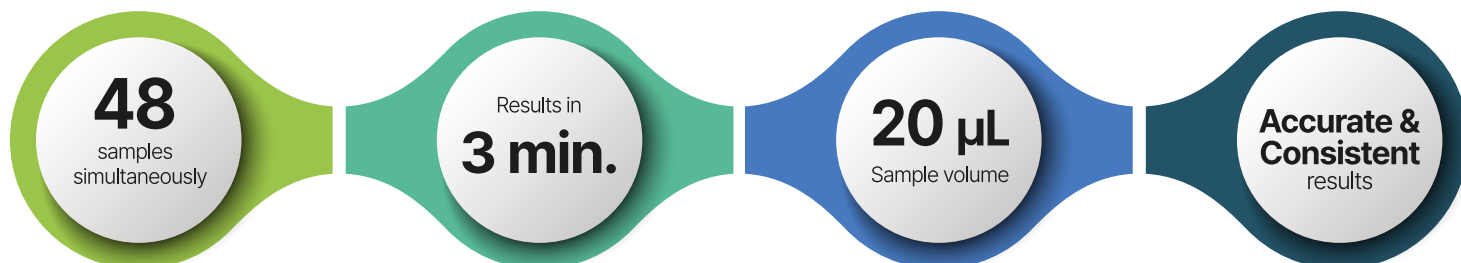
EVE™ HT FL software complies with 21 CFR part 11 requirements. It provides full electronic records to track all user activities, and requires an electronic signature to modify or export data.



Introduction

EVE™ 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™ 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

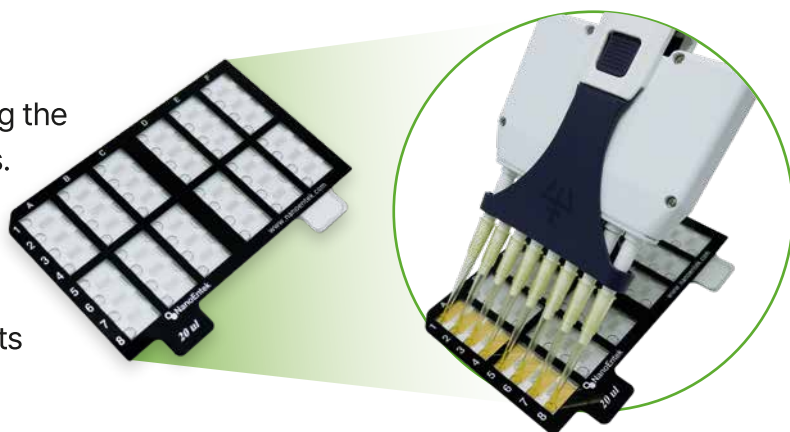
In just **3 minutes**, up to **48 samples** can be counted simultaneously.

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

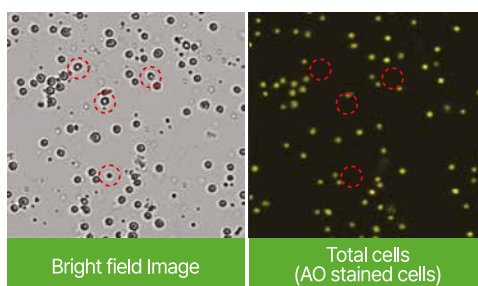
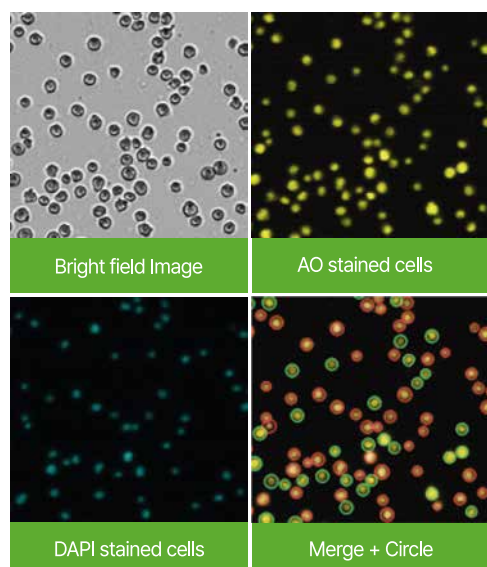
Leading to substantial time saving by eliminating the need for frequent reloading and waiting periods.

Small Sample Volume

EVE™ 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!

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 based counting.

Diverse Cell Counting Applications

Primary Cells

PBMCs

Cell Lines

Stem Cells

Hepatocytes

Leukocytes

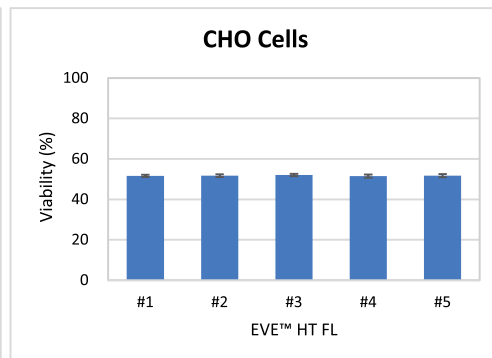
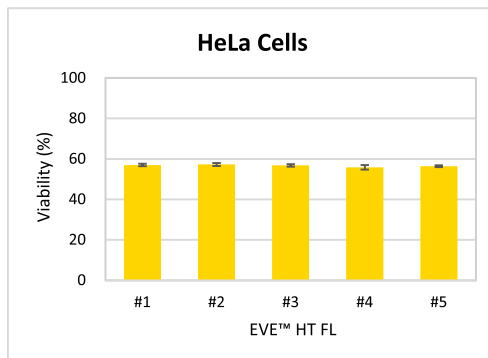
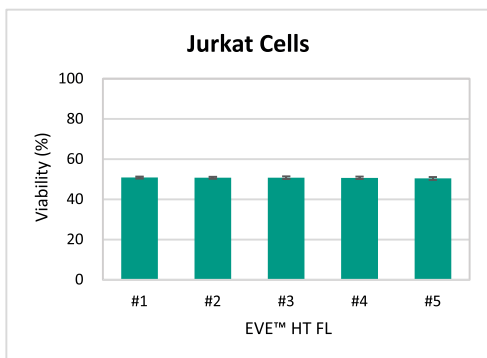
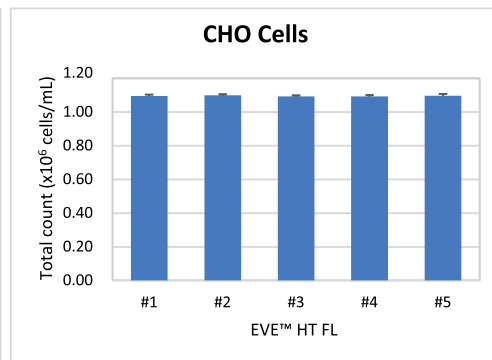
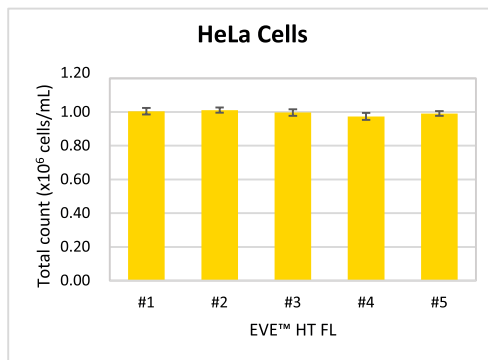
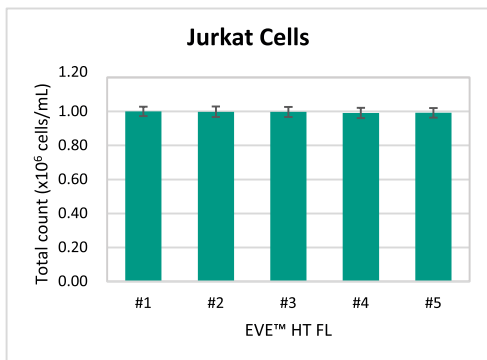
Splenocytes

Adipocytes

Accurate and Reliable 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%

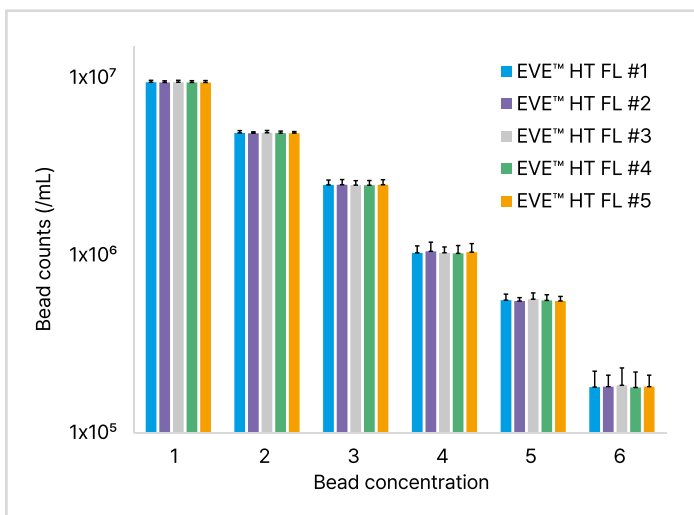
HeLa	Total count (CV)	Viability (CV)
Instrument to instrument	1.14%	0.91%
Plate to plate	1.45%	0.85%
Whole result	5.29%	3.73%

CHO	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%

*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

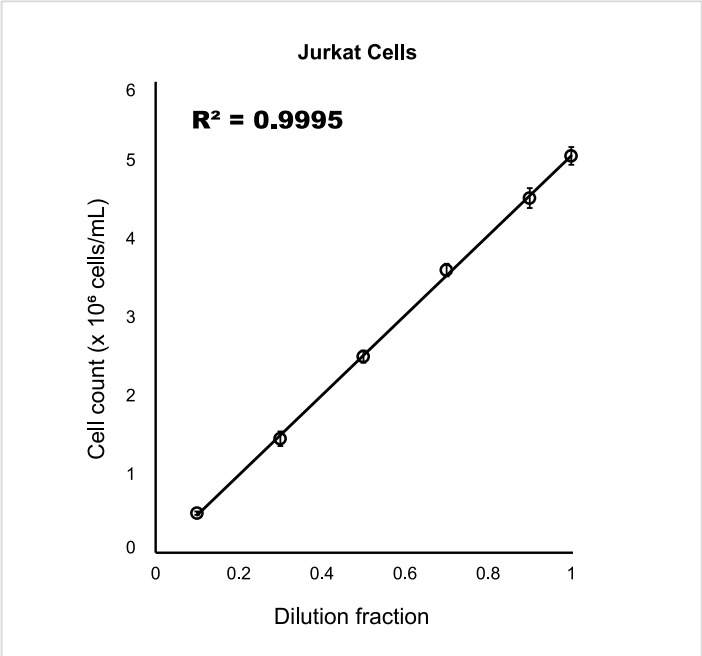
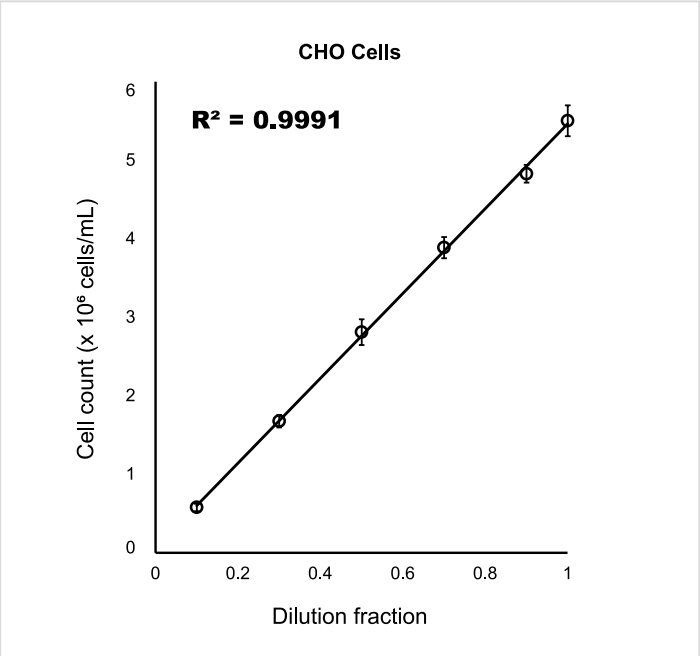
5 EVE™ HT FL were used to measure fluorescent reference beads (for AO channel) at 6 different concentrations. The results below show very little instrument-to-instrument variability.



	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 %

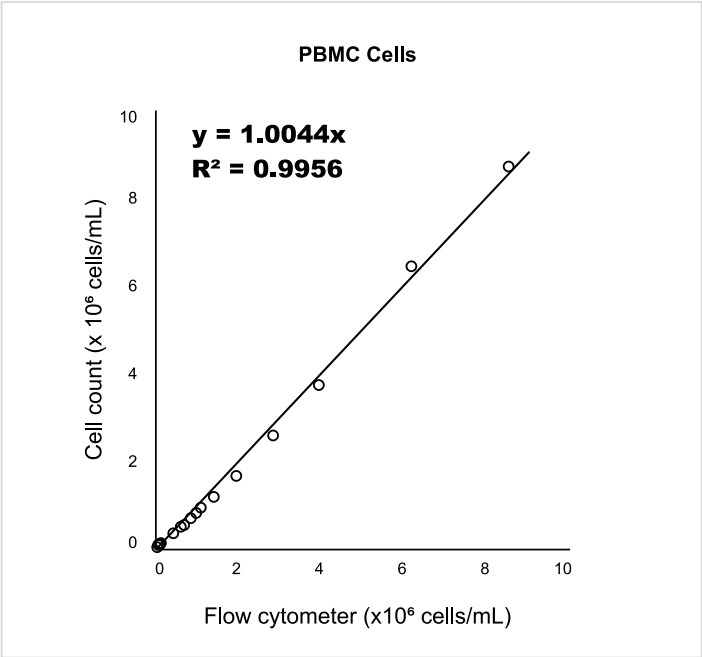
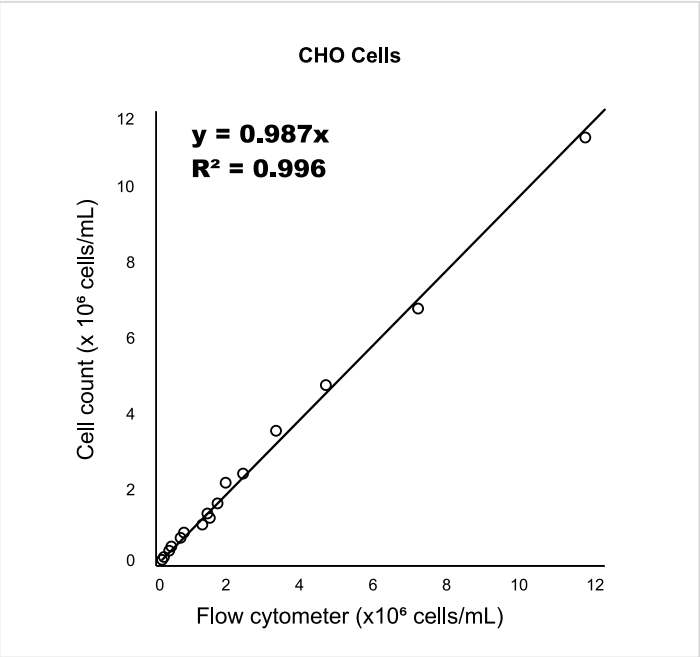
Excellent Linearity Across Wide Range

Following ISO standard for cell counting, we evaluated linearity of EVE™ 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.





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Ordering Information

Cat. No	Product	Contents
Device and Accessories		
EVE HT FL	High-Throughput Fluorescence Cell counter	Main device, Desktop, Monitor, Multi pipette
EHPP-001	Preparation Plate	Preparation Plate, 1 plate
Kit and Consumables		
EVFL-020	EVE HT FL Counting Kit	960 tests / kit Counting plate (48 channels × 20 plates) Mixing well plate (96 wells × 10 plates) Reservoir (5 pcs × 4 packs)
EVAD-960	AO/DAPI Staining Solution	20 mL × 2 bottles Acridine orange (AO) & 4',6-diamidino-2-phenylindole (DAPI) stain
EVTB-960	Trypan Blue Stain	20 mL × 2 bottles Trypan blue stain (0.4 %)
EVEB-960	Erythrosin B Stain	20 mL × 2 bottles Erythrosin B stain (0.05 %)
QC Plate and Beads		
EHGQ-001	EVE HT FL & A26 QC Plate (Fluorescence)	Low level, 1 plate
EHGQ-002	EVE HT FL & A26 QC Plate (Fluorescence)	Middle level, 1 plate
EHGQ-003	EVE HT FL & A26 QC Plate (Fluorescence)	High level, 1 plate
EHBQ-001	EVE HT FL & A26 QC Plate (Bright)	Low level, 1 plate
EHBQ-002	EVE HT FL & A26 QC Plate (Bright)	Middle level, 1 plate
EHBQ-003	EVE HT FL & A26 QC Plate (Bright)	High level, 1 plate
EFB-001	EVE HT Series Test Beads (Fluorescence)	1 mL x 1 tube
EHB-001	EVE HT Series Test Beads (Bright)	1 mL x 1 tube
Software		
EVE HT FL 21 CFR Part 11	EVE HT FL 21 CFR Part 11 software	21 CFR Part 11 software

Specifications

Analysis Time	3 - 20 minutes for 48 samples	Loading Sample Volume	20 µL per channel
Measuring Range	Detectable range: $1 \times 10^4 - 2 \times 10^7$ cells/mL Optimal range: $1 \times 10^5 - 1 \times 10^7$ cells/mL	Operation System	Windows 10, 11
Cell Size Range	Detectable size: 1 - 85 µm (Fluorescence mode) 5 - 85 µm (Brightfield mode)	Power	100 - 240V, 50/60Hz
	Optimal size: 5 - 80 µm (Fluorescence mode) 10 - 80 µm (Brightfield mode)	Dimensions	586 × 461 × 458 mm (W×D×H) 23 × 18.1 × 18 in (W×D×H)
		Weight	61 kg (135 lbs.)
Channel	Dual fluorescence channels (AO & DAPI) Brightfield channel	Staining Solution	AO/DAPI mixed solution Trypan blue stain Erythrosin B stain
		21 CFR Part 11 Compliance	Available (Optional)



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 This product is not approved for diagnostic or therapeutic use.

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