



Cell Counting

<u>Automated Cell Counting System</u>	<u>26</u>
<u>Ordering Information</u>	<u>27</u>

Automated Cell Counting System

TC10™ Automated Cell Counter

Order Info: Pg 27

The easy-to-use TC10 automated cell counter was developed to count mammalian cells. The cell counter rapidly:

- Provides a total cell count with or without staining
- Assesses cell viability via trypan blue dye exclusion

Accuracy is consistent and comparable to results obtained with a manual hemocytometer when counting cells within the 5×10^4 – 1×10^7 cells/ml range and 6–50 μm cell diameter, leading to highly reproducible cell counts.

Results from 100 counts are stored in the cell counter and can be exported via the USB port and opened in an Excel spreadsheet. Images of the cells can be viewed on the instrument; annotated JPEG files can be exported via the USB port.

- **One-step counting** — the stand-alone instrument with onboard software automatically counts cells immediately upon slide insertion and detects the presence of the trypan blue dye (optional) in the sample, without any user input
- **Auto-focus** — increases accuracy and saves time by eliminating a manual focus step
- **Optional trypan blue dye** — counts samples with or without trypan blue dye
- **Small sample volumes required** — the counting slides require only $\sim 10 \mu\text{l}$ of suspended cells
- **Dilution calculator** — calculates volume adjustments required to achieve the desired cell concentration
- **Fast results** — sophisticated software provides accurate and reproducible cell counts within 30 sec
- **Small footprint** — compact design takes up minimal space (7 x 6") and fits inside a tissue culture hood

TC10 Kits, Reagents, and Accessories

- **TC10 trypan blue dye** — allows rapid staining for accurate determination of cell viability
- **TC10 counting slide** — dual-chamber slide can provide counts for two separate samples or dilutions; ensures accurate and reproducible cell counts. Each chamber requires only $10 \mu\text{l}$, saving precious cells
- **Thermal label printer** — can be connected to the cell counter for printing results onto labels that can be placed into a laboratory notebook



TC10 Automated Cell Counter, Counting Slides, Trypan Blue Dye

For researchers in regulated environments:

- **TC10 verification kit** — used to validate full functionality of the TC10 cell counter, it also serves as a positive control for cell counting experiments; includes a protocol and verification slide

For More Information

Web: www.bio-rad.com/TC10

Request or download bulletin: 5929

Automated Cell Counting System

Catalog #	Description	Pg 26
TC10 Automated Cell Counter		
145-0001	TC10 Automated Cell Counter , 100–240 V, includes instrument, USB key, 30 TC10 dual-chamber counting slides (60 counts), 1.5 ml TC10 trypan blue dye	
145-0009	TC10 Automated Cell Counter with Printer , 100–240 V, includes instrument, USB key, TC10 thermal label printer, 1 roll of 185 labels, 30 TC10 dual-chamber counting slides (60 counts), 1.5 ml TC10 trypan blue dye	
Kits and Reagents		
145-0003	TC10 Counting Kit , includes 30 TC10 dual-chamber counting slides (60 counts), 1.5 ml TC10 trypan blue dye	
145-0013	TC10 Trypan Blue Dye , 0.4% in 0.81% sodium chloride and 0.06% potassium phosphate dibasic solution, sterile filtered, sufficient for 150 counts (10 µl/count), 1 x 1.5 ml	
145-0021	TC10 Trypan Blue Dye , 0.4% in 0.81% sodium chloride and 0.06% potassium phosphate dibasic solution, sterile filtered, sufficient for 750 counts (10 µl/count), 5 x 1.5 ml	
145-0022	TC10 Trypan Blue Dye , 0.4% in 0.81% sodium chloride and 0.06% potassium phosphate dibasic solution, sterile filtered, sufficient for 1,500 counts (10 µl/count), 10 x 1.5 ml	
145-0014	TC10 Verification Kit , includes TC10 verification slide, protocol	
145-0015	TC10 Counting Slides , 150 dual-chamber slides (300 counts)	
145-0016	TC10 Counting Slides , 300 dual-chamber slides (600 counts)	
145-0017	TC10 Counting Slides , 600 dual-chamber slides (1,200 counts)	
145-0018	TC10 Counting Slides , 900 dual-chamber slides (1,800 counts)	
145-0019	TC10 Counting Slides , 1,200 dual-chamber slides (2,400 counts)	
145-0020	TC10 Counting Slides , 2,400 dual-chamber slides (4,800 counts)	
Accessories		
145-0005	TC10 Thermal Label Printer , includes label printer, USB cable, 1 roll of 185 labels	
145-0007	Thermal Printer Labels , 1 roll of 185 labels, for TC10 thermal label printer	

