

# QUANTOM™ Total Cell Staining Kit

Q13501

## Storage

Room temperature

- ✓ Q13001 QUANTOM™ Cell Loading Buffer I
- ✓ Q13002 QUANTOM™ Total Cell Staining Enhancer

-20°C in the dark

- ✓ Q13101 QUANTOM™ Total Cell Staining Dye

## Product Description

Appearance	Yellow liquid
Cell permeability	Membrane permeable
Excitation/emission	484/504 nm

The QUANTOM™ Total Cell Staining Kit is used to label bacterial cells for counting with the QUANTOM Tx™ Microbial Cell Counter.

QUANTOM™ Total Cell Staining Dye is a membrane-permeable fluorescent dye that can stain nucleic acids in both live and dead cells. Both Gram-positive and negative bacterial cells can be detected with QUANTOM™ Total Cell Staining Dye. QUANTOM™ Total Cell Staining Enhancer improves dye penetration into cells. QUANTOM™ Total Cell Staining Enhancer also keeps dye evenly distributed in solution, keeping the background uniform for each field of view during multiple image acquisition. QUANTOM™ Cell Loading Buffer I is a gradient medium used for the even distribution and sedimentation of bacterial cells in QUANTOM™ M50 Cell Counting Slides.

## Directions for Use

- Mix:
  - 1 µL QUANTOM™ Total Cell Staining Dye
  - 1 µL QUANTOM™ Total Cell Staining Enhancer
  - 10 µL cell sample

Make sure to mix thoroughly before proceeding.

**NOTE:** For some cells, it may be necessary to increase incubation time from 1-30 minutes. Longer incubation times can increase levels of fluorescence staining but can also lead to non-specific staining and abnormal cell aggregation.

- Add 8 µL QUANTOM™ Cell Loading Buffer I. Mix gently so as not to create bubbles.
- Load 5-6 µL into a QUANTOM™ M50 Cell Counting Slide.
- Centrifuge the sample slide at 300 RCF for 5-30 minutes in a QUANTOM™ Centrifuge. 10 minutes is recommended for most bacterial cells.

**NOTE:** The recommended parameters may be insufficient to distribute smaller bacterial cells along one focal plane. Centrifugation force and time may need to be optimized according to cell size.

- Count the sample with a QUANTOM Tx™ with the light intensity level set to 5 for most bacterial cells.



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LBSM-RD-PI-QTK-001 Rev.3

## Disclaimer

This product is for research use only. Please consult the material safety data sheet for information regarding hazards and safe handling practices.

Additional information is available on our website at [www.logosbio.com](http://www.logosbio.com).  
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