**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**

1. **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.

2. **Add 8 μL QUANTOM™ Cell Loading Buffer I. Mix gently so as not to create bubbles.**

3. **Load 5-6 μL into a QUANTOM™ M50 Cell Counting Slide.**

4. **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.

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

**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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