QUANTOM[™] Viable Cell Staining Kit

Q13502

Storage

Room temperature

- ✓Q13001 QUANTOM[™] Cell Loading Buffer I
- ✓Q13003 Dimethyl Sulfoxide ✓Q13004 QUANTOM[™] Viable Cell
- Dilution Buffer
- -20°C in the dark
- ✓Q13201 QUANTOM[™] Viable Cell Stainina Dve



HEADQUARTERS

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VQ1802-01

Product Description

Appearance Cell permeability Excitation/emission

Powder Membrane permeable 496/520 nm

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

The QUANTOM[™] Viable Cell Staining Dye is a less toxic Calcein AM derivative that has better cellular retention and efficiently labels difficult-to-stain live bacterial cells. QUANTOM[™] Viable Cell Dilution Buffer enhances the fluorescence signal of cells stained with QUANTOM[™] Viable Cell Staining Dye and is used to wash or dilute bacterial cells prior to staining. QUANTOM[™] Cell Loading Buffer I is a aradient medium used for the even distribution and sedimentation of bacterial cells in QUANTOM[™] M50 Cell Counting Slides.

Directions for Use

STOCK PREPARATION

- 1. Add 660 µL Dimethyl sulfoxide (DMSO) to the vial of QUANTOM[™] Viable Cell Staining Dye. Mix thoroughly.
- 2. Aliauot and store at -20°C for up to 3 months.

NOTE: The dye may spontaneously hydrolyze in solution. **NOTE:** Store in powder form for up to 2 years at -20°C.

3. Thaw at 4°C or on ice before use.

CELL STAINING & COUNTING

 Dilute cell suspensions as necessary with QUANTOM[™] Viable Cell Dilution Buffer

> NOTE: Stain cells after dilution or resuspension with QUANTOM™ Viable Cell Dilution Buffer. PBS or water will decrease labeling efficiency. Culture media or sera may have esterase activity and lead to decreased viable cell staining and high background fluorescence.

- 2. (Optional) Wash cells with QUANTOM[™] Viable Cell Dilution Buffer.
- 3 Mix

2 µL QUANTOM[™] Viable Cell Staining Dye 10 µL cell sample

- 4. Incubate at 37°C for 20 minutes to 3 hours in the dark. 30 minutes is recommended for most bacterial cells.
- 5. Add 8 µL QUANTOM[™] Cell Loading Buffer I. Mix gently so as not to create bubbles.
- 6. Load 5-6 µL into a QUANTOM[™] M50 Cell Counting Slide.
- 7. Centrifuge the sample slide at 300 RCF for 5-30 minutes in a QUANTOM[™] Centrifuge. 10 minutes is recommended for most bacterial cells

NOTE: Centrifugation force and time may need to be optimized according to cell size to distribute cells along one focal plane.

8. Count the sample with a QUANTOM Tx[™] with the light intensity level set to 9 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.

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