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 Staining Dve

logos

HEADQUARTERS

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Product Description

Appearance Powder

Cell permeability Membrane permeable

Excitation/emission 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 gradient medium used for the even distribution and sedimentation of bacterial cells in QUANTOM™ M50 Cell Counting Slides.

Directions for Use

STOCK PREPARATION

- Add 660 µL Dimethyl sulfoxide (DMSO) to the vial of QUANTOM™ Viable Cell Staining Dve, Mix thoroughly.
- 2. Aliquot 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.
- 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.
- 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.

 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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