

## Datasheet: FCSC827B

**BATCH NUMBER 155846**

|                      |                                    |
|----------------------|------------------------------------|
| <b>Description:</b>  | QUANTUM™ R-PE MESF MEDIUM LEVEL    |
| <b>Name:</b>         | QUANTUM™ R-PE MESF MEDIUM LEVEL    |
| <b>Format:</b>       | Flow Cytometry Calibration Reagent |
| <b>Product Type:</b> | Accessory Reagent                  |
| <b>Quantity:</b>     | 100 TESTS                          |

### Product Details

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                | Yes | No | Not Determined | Suggested Dilution |
|----------------|-----|----|----------------|--------------------|
| Flow Cytometry | ▪   |    |                |                    |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

|                        |                           |
|------------------------|---------------------------|
| <b>Buffer Solution</b> | Phosphate buffered saline |
|------------------------|---------------------------|

|                     |  |
|---------------------|--|
| <b>Preservative</b> | 0.09% Sodium Azide (NaN <sub>3</sub> ) |
| <b>Stabilisers</b>  | 0.01% Gelatin<br>0.01% Tween 80        |

**Product Information** **Quantum™ R-PE MESF Medium Level** is comprised of four calibrated fluorescent populations, with different levels of RPE fluorescence intensity, and one blank population of uniform microspheres that are approximately the size of human lymphocytes (7-9µm). The excitation and emission spectra of the microspheres match those of cell samples labeled with RPE.

The levels of fluorescence intensity in the different kits (Low, Medium and High) are intended to span the intensity range of common cellular analyses. Medium level kits are used for many types of analyses, and nicely span the range of typical cell samples. Common analyses include those for many surface markers, including CD4 / CD8.

**Intended Use** FCSC827B is used in the quantitation of RPE fluorescence intensity in Molecules of Equivalent Soluble Fluorochrome (MESF) units. When used in conjunction with Simply Cellular® microspheres this kit also allows quantitation of Antibody Binding Capacity

(ABC).

This kit enables fluorescence intensity of a sample to be directly quantified in terms of MESF units and for samples from different instruments to be accurately compared. The fluorescence intensity of each of the five populations in the kit have been calibrated against solutions of laser grade fluorescent dye in units of MESF RPE per microsphere. The Certified Blank™ population is used to measure the fluorescence detection threshold of the instrument. Correct use of the kit enables:

- 1) quantitation of fluorescence intensity of samples in terms of MESF;
- 2) determination of instrument fluorescence detection threshold;
- 3) determination of instrument linearity;
- 4) data comparison over time and between multiple instruments.

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**Reagents In The Kit** 1 x 5ml bottle of unlabeled microbeads  
4 x 5ml bottles of labeled microbeads

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**Instructions For Use** Instructions for use can be found at [www.bio-rad-antibodies.com/uploads/IFU/FCSC827B.pdf](http://www.bio-rad-antibodies.com/uploads/IFU/FCSC827B.pdf)

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**Storage** Store at +4°C. DO NOT FREEZE.  
This product should be stored undiluted. This product is photosensitive and should be protected from light.

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**Guarantee** Guaranteed until date of expiry. Please see product label.

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**Acknowledgements** Quantum™ is a trademark of Bangs Laboratories, INC.

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**Health And Safety Information** Material Safety Datasheet documentation #10042 available at:  
10042: <https://www.bio-rad-antibodies.com/uploads/MSDS/10042.pdf>

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**Regulatory** For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M350342:190307'

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