

## mCherry Flow Cytometer Calibration Beads

<b>Catalog No(s).</b>	<b>Amount</b>	<b>Lot Number</b>
632595	20 assays	1909022A

### Description

The mCherry Flow Cytometer Calibration Beads allow for easy calibration of any flow cytometer with a 561 nm laser line that excites the red fluorescent protein, mCherry. The beads consist of a mixture of six distinct populations that vary in the number of attached mCherry molecules, giving each population a distinct fluorescent signature. The value for the corresponding Molecular Equivalent of Soluble Fluorophore (MESF) per peak was determined by correlating the fluorescence intensity of each respective bead population with the amount of soluble mCherry yielding the same fluorescence intensity. The lowest intensity represents the autofluorescence signal of cells not expressing red fluorescent protein, while the five remaining peaks are evenly distributed over the remaining scale of the red fluorescence detection channel.

### Package Contents

- 0.4 ml mCherry Flow Cytometer Calibration Beads (contains 0.05% NaN<sub>3</sub>)
- 20 ml 1X Flow Cytometer Calibration Beads Dilution Buffer

### Storage Conditions

- Store all components at 4°C. Do not freeze beads.

### Shelf Life

- 1 year from date of receipt under proper storage conditions.

### Shipping Conditions

- Blue ice (4°C)

### Product Documents

Documents for our products are available for download at [takarabio.com/manuals](http://takarabio.com/manuals)  
The following documents apply to this product:

- Flow Cytometer Calibration Beads Protocol-At-A-Glance

---

#### Takara Bio USA, Inc.

1290 Terra Bella Avenue, Mountain View, CA 94043, USA  
U.S. Technical Support: [techUS@takarabio.com](mailto:techUS@takarabio.com)

United States/Canada 800.662.2566 (121916)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.565.6999
--	---------------------------------	------------------------------	-----------------------------

# Certificate of Analysis

Cat. No. 632595

(mCherry Flow Cytometer Calibration Beads)

---

## Quality Control Data

The mCherry Flow Cytometer Calibration Beads were analyzed via flow cytometry using a 561 nm laser line. The peak representing the lowest intensity was adjusted to fall in the window between  $10 \times 10^0$  and  $5.0 \times 10^1$ . At this setting, the remaining bead populations showed 5 distinct, well-separated peaks. The peak with the highest fluorescent intensity signal showed a mean fluorescent intensity of  $3 \times 10^4$  or higher.

The MESF values for the different peaks in this lot were determined to be:

Peak #	MESF
1	14,119
2	52,508
3	152,147
4	674,652
5	2,240,696
6	12,370,807

The mean fluorescence intensity values for the 6 different peak fractions obtained by flow cytometry showed a linear correlation to the corresponding MESF values.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

## mCherry Flow Cytometer Calibration Beads

### CATALOG NO.

632595

### NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

Your use of this product is also subject to compliance with the licensing requirements, listed below if applicable, and described on the product's web page at <http://www.takarabio.com>. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

### STATEMENT 44

The DsRed-Monomer and the Fruit Fluorescent Proteins are covered by one or more of the following U.S. Patents: 7,005,511; 7,157,566; 7,393,923 and 7,250,298.

### TRADEMARKS:

**©2020 Takara Bio Inc. All Rights Reserved.**

All trademarks are the property of Takara Bio Inc. or its affiliate(s) in the U.S. and/or other countries or their respective owners. Certain trademarks may not be registered in all jurisdictions.

---

#### Takara Bio USA, Inc.

1290 Terra Bella Avenue, Mountain View, CA 94043, USA  
U.S. Technical Support: techUS@takarabio.com

**United States/Canada**

800.662.2566

**Asia Pacific**

+1.650.919.7300

**Europe**

+33.(0)1.3904.6880

**Japan**

+81.(0)77.565.6999

11/11/2020