

AcGFP Flow Cytometer Calibration Beads

Catalog No.	Amount	Lot Number
632594	20 assays	2006420A

Description

The AcGFP Flow Cytometer Calibration Beads allow for easy calibration of any flow cytometer with a 488 nm laser line that excites the green fluorescent proteins AcGFP1 (*Aequorea coerulea* GFP) and EGFP. The excitation/emission spectrum and brightness of AcGFP are almost identical to those of EGFP. The beads consist of a mixture of six distinct populations that vary in the number of attached AcGFP1 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 AcGFP1 yielding the same fluorescence intensity. The lowest intensity represents the autofluorescence signal of cells not expressing green fluorescent protein, while the five remaining peaks are evenly distributed over the remaining scale of the green fluorescence detection channel.

Package Contents

- 0.4 ml AcGFP Flow Cytometer Calibration Beads (contains 0.05% NaN₃)
- 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

The following documents apply to this product:

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

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. No. 632594

AcGFP Flow Cytometer Calibration Beads

Quality Control Data

The AcGFP Flow Cytometer Calibration Beads were analyzed via flow cytometry using a 488 nm laser line.

The AcGFP beads appear as 6 distinct peaks. The MESF values for the different peaks in this lot were determined to be:

Peak #	MESF
1	31,439
2	145,628
3	625,910
4	2,721,798
5	8,309,161
6	43,919,763

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.

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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.

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STATEMENT 39

AcGFP is covered by U.S. Patent No. 7,432,053.

TRADEMARKS:

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