

## Technical Data Sheet Mouse MIG Flex Set

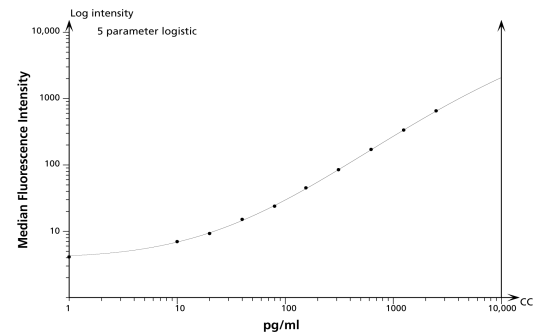
### Product Information

Material Number:	558341
Size:	100 Tests
Bead Position:	D9
Assay Range:	10-2,500 pg/mL
Reactivity:	QC Testing: Mouse

Component Description: Mouse MIG Standard  
 Component Mat. No: 51-9004262  
 Component Storage Buffer: Lyophilized in an aqueous buffered solution containing BSA and ProClin™ 150.

Component Description: Mouse MIG PE\* Detection Reagent  
 Component Mat. No: 51-9004292  
 Component Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Component Description: Mouse MIG Capture Bead D9  
 Component Mat. No: 51-9005262  
 Component Storage Buffer: Aqueous buffered solution containing fetal bovine serum and ≤0.09% sodium azide.



**Example BD CBA Mouse MIG Flex Set standard curve.**  
 Data acquired on a BD FACSAria bioanalyzer and analyzed using FCAArray Software.

### Description

The BD™ CBA Mouse MIG Flex Set is a bead-based immunoassay capable of measuring mouse monokine induced by gamma interferon (MIG), also known as CXCL9, in serum and cell culture supernatant samples. Mouse reactivity was determined by testing samples with the BD CBA Mouse MIG Flex Set. The biology and function of MIG has been previously reviewed. For more information on bead-based immunoassays, refer to the product insert for the BD CBA Mouse/Rat Soluble Protein Master Buffer Kit (Cat. No. 558266 or 558267).

### Preparation and Storage

This BD™ CBA Flex Set contains one vial each of Capture Bead and PE Detection Reagent and two vials of Standard. The Capture Bead and PE Detection Reagent components of this flex set have been formulated to a 50x concentration to ensure product performance when multiplexed. The Standard component is lyophilized and should be transferred to a 15 mL polypropylene tube for reconstitution. When reconstituted in 4.0 mL Assay Diluent, the standard has a protein concentration of 2,500 pg/mL. Discard unused reconstituted standard, do not store or reuse. Store lyophilized standard and other components at 4°C. Protect Capture Beads and the PE Detection Reagent from prolonged exposure to light.

### Application Notes

**Recommended Assay Procedure:** The BD CBA Mouse MIG Flex Set must be used in conjunction with a BD CBA Mouse/Rat Soluble Protein Master Buffer Kit (Cat. No. 558266, 100 tests, or 558267, 500 tests), a flow cytometer, and FCAArray™ Software. Detailed instructions on the use of this product can be found in the manual for the BD CBA Mouse/Rat Soluble Protein Master Buffer Kit. When following the directions in the Master Buffer Kit, the top standard point for the BD CBA Mouse MIG Flex Set will be 2,500 pg/mL. An example standard curve is shown in figure 1.

The BD CBA Mouse MIG Flex Set should not be used in the same assay well with any non-BD CBA Mouse Soluble Protein Flex Set reagents

### BD Biosciences

bdbiosciences.com

<b>United States</b>	<b>Canada</b>	<b>Europe</b>	<b>Japan</b>	<b>Asia Pacific</b>	<b>Latin America/Caribbean</b>
877.232.8995	800.268.5430	32.2.400.98.95	0120.8555.90	65.6861.0633	55.11.5185.9995

For country contact information, visit [bdbiosciences.com/contact](http://bdbiosciences.com/contact)

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2014 BD



(such as BD CBA Human or Rat Soluble Protein or Cell Signaling Flex Sets). For an updated assay compatibility chart for the BD CBA Mouse Soluble Protein Flex Sets, please refer to the BD CBA Flex Set System homepage at <http://www.bdbiosciences.com/cbassetup>.

## Performance

**Limit of Detection:** The theoretical limit of detection is 3.0 pg/mL and was determined by evaluating the estimated result of the average MFI of the negative control (0 pg/mL,  $n=30$ ) + 2 standard deviations.

Specificity		Inter-Assay Reproducibility			Intra-Assay Reproducibility		
		Mean (pg/ml)	Standard Deviation	%CV	Mean (pg/ml)	Standard Deviation	%CV
Mouse MIG	Sample 1	33.8	3.6	11%	37.2	2.6	7%
	Sample 2	141.7	10.5	7%	147.3	8.1	6%
	Sample 3	612.6	36.9	6%	586.1	21.3	4%

**Reproducibility:** The inter-assay and intra-assay reproducibility were determined for the BD CBA Mouse MIG Flex Set by evaluating ten replicates of three different sample levels (inter-assay) and two replicates of three different sample levels from four separate experiments (intra-assay) respectively.

Sample Dilution	Cell Culture Supernatant		Serum	
	Average % Recovery	Range	Average % Recovery	Range
Mouse MIG	83%	82 - 85%	54%	29 - 75%

**Recovery:** Cell culture supernatant and pooled mouse serum were spiked with three different levels of protein. The spiked samples were assayed and the results were compared with expected values. Serum samples were diluted 1:4 before the protein was spiked into each. Serum used was commercially available pooled mouse serum.

Sample Dilution	Cell Culture Supernatant		Serum	
	Detected (pg/ml)	% of Expected	Detected (pg/ml)	% of Expected
Spiked sample	556.3	100%	608.1	100%
1 : 2	263.9	95%	333.1	110%
1 : 4	133.9	96%	193.7	127%

**Linearity:** Cell culture supernatant and 1:4 diluted pooled mouse serum were spiked with protein and serially diluted. The diluted samples were assayed and the results were compared with the original spiked sample.

## Product Notices

- ProClin is a trademark of Rohm and Haas Company.
- Source of all serum proteins is from USDA inspected abattoirs located in the United States.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
- Warning: CBA lyophilized standard contains 0.02% (w/w) of a CMIT/MIT mixture (3:1), which is a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1).  
Hazard statement: May cause an allergic skin reaction.  
Precautionary statements: Wear protective gloves/eye protection. Wear protective clothing. Avoid breathing mist/vapours/spray. If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. Dispose of contents/container in accordance with local/regional/national/international regulations.

## BD Biosciences

[bdbiosciences.com](http://bdbiosciences.com)

United States 877.232.8995 Canada 800.268.5430 Europe 32.2.400.98.95 Japan 0120.8555.90 Asia Pacific 65.6861.0633 Latin America/Caribbean 55.11.5185.9995

For country contact information, visit [bdbiosciences.com/contact](http://bdbiosciences.com/contact)

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2014 BD

