

Technical Data Sheet

Mouse IL-23 p19/p40 Flex Set

Product Information

Material Number:	562575
Size:	100 Tests
Bead Position:	D7
Assay Range:	10-2,500 pg/mL
Reactivity:	QC Testing: Mouse



Component Description: Mouse IL-23 p19/p40 Standard
 Component Mat. No: 51-9008106
 Component Storage Buffer: Lyophilized in an aqueous buffered solution containing BSA and ProClin™ 150.

Component Description: Mouse IL-23 p19/p40 PE Detection Reagent
 Component Mat. No: 51-9008108
 Component Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Component Description: Mouse IL-23 p19/p40 Capture Bead D7
 Component Mat. No: 51-9008110
 Component Storage Buffer: Aqueous buffered solution containing fetal bovine serum and ≤0.09% sodium azide.

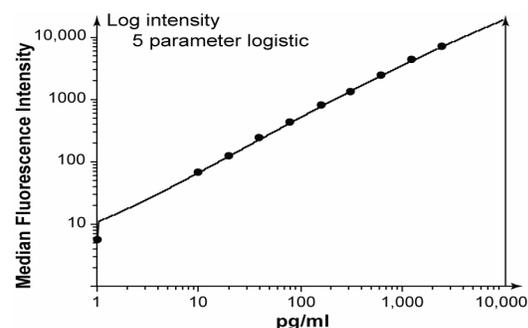


Figure 1. Example BD CBA Mouse IL-23 p19/p40 Flex Set standard curve. Data acquired on a BD FACSAry bioanalyzer and analyzed using FCAP Array Software.

Description

The BD™ CBA Mouse IL-23 (p19/p40) Flex Set is a bead based immunoassay capable of measuring mouse Interleukin-23 (p19/p40) in cell culture supernatant samples. Investigators are encouraged to titrate cell culture supernatant samples, such as with a 1:2 dilution with CBA Assay Diluent, prior to testing. The BD™ CBA Mouse IL-23 (p19/p40) Flex Set is not recommended for testing mouse serum or plasma samples. Mouse reactivity was determined by testing samples with the BD CBA Mouse IL-23 (p19/p40) Flex Set. 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 IL-23 (p19/p40) 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 FCAP Array™ Software. Detailed instructions for 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 IL-23 (p19/p40) Flex Set will be 2,500 pg/mL.

The BD CBA Mouse IL-23 (p19/p40) Flex Set should not be used in the same assay well with any non-BD CBA Mouse Soluble Protein Flex Set

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Reagents, which include: Human Soluble Protein, Human Enhanced Sensitivity, Mouse Enhanced Sensitivity, Human Soluble Receptor and Cell Signalling Flex Sets. For an updated assay compatibility chart for the BD CBA Mouse Soluble Protein Flex Sets, please visit <http://www.bdbiosciences.com/cbasetup>.

Performance

Limit of Detection: The theoretical limit of detection is 1.04 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 IL-23	Sample 1	33.4	4.2	13%	30.5	3.5	12%
	Sample 2	133.6	17.8	13%	116.5	8.0	7%
	Sample 3	559.9	54.5	10%	550.2	19.4	4%

Reproducibility: The intra-assay and inter-assay reproducibility were determined for the BD CBA Mouse IL-23 p19/p40 Flex Set by evaluating ten replicates of three different sample levels (intra-assay) and three replicates of three different sample levels from four separate experiments (inter-assay).

Specificity	Cell Culture Supernatant	
	Average % Recovery	Range
Mouse IL-23	68%	60 - 74%

Recovery: Cell culture supernatant was spiked with three different levels of recombinant mouse IL-23 p19/p40 protein. The spiked samples were assayed and the results were compared with expected values.

Sample Dilution	Cell Culture Supernatant	
	Detected (pg/ml)	% of Expected
Spiked sample	432.7	100%
1 : 2	238.7	110%
1 : 4	114.8	106%

Linearity: Cell culture supernatant was spiked with recombinant mouse IL-23 p19/p40 protein and serially diluted. The diluted samples were assayed and the results were compared with the original spiked sample.

Product Notices

1. ProClin is a trademark of Rohm and Haas Company.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. 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.
4. 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.

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