

Technical Data Sheet

Mouse Inflammation Standards

Product Information

Material Number:	620280
Component:	51-9000148
Description:	Mouse Inflammation Standards (C)
Size:	1 Vial(s) (1 ea)
Storage Buffer:	Lyophilized in an aqueous buffered solution containing BSA and ProClin™ 150.

Description

The Mouse Inflammation Standards contains a mixture of individually lyophilized recombinant proteins made up of recombinant mouse Interleukin-6 (IL-6), IL-10, IL-12p70, Monocyte Chemoattractant Protein-1 (MCP-1), Interferon- γ (IFN- γ) and Tumor Necrosis Factor (TNF). The reconstituted Mouse Inflammation Standards is designed for use as a standard control with the BD™ Cytometric Bead Array (CBA) Mouse Inflammation Kit (Cat. No. 552364). Please refer to the manual included with the BD™ Cytometric Bead Array (CBA) Mouse Inflammation Kit for further information.

Preparation and Storage

Store the lyophilized standard at 4°C prior to reconstitution.

Lyospheres from 1 vial of the Mouse Inflammation Standards, when reconstituted in 2.0 mL Assay Diluent, approximates the CBA activity of mouse Interleukin-6 (IL-6), IL-10, IL-12 (p70), Monocyte Chemoattractant Protein-1 (MCP-1), Interferon- γ (IFN- γ) and Tumor Necrosis Factor (TNF) at a concentration of 5000 pg/mL. Following reconstitution, maintain the Mouse Inflammation Standards at 4°C and use within 12 hours. Any unused reconstituted standard must be discarded after this period (do not store or reuse).

Application Notes

Application

Flow cytometry	Routinely Tested
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Recommended Assay Procedure:

The Mouse Inflammation Standards have been tested with BD™ Cytometric Bead Array (CBA) Mouse Inflammation Kit (Cat. No. 552364) to assure function as a standard in the CBA assay. Investigators are encouraged to refer to the manual for the BD™ Cytometric Bead Array (CBA) Mouse Inflammation Kit (Cat. No. 552364). The Mouse Inflammation Standards are lyophilized and should be reconstituted and serially diluted before mixing with CBA capture beads and PE detection reagents. An abbreviated instruction has been provided below (Preparation of Mouse Inflammation Standards). The Mouse Inflammation Standards should be reconstituted using Assay Diluent, which is provided with the BD™ Cytometric Bead Array (CBA) Mouse Inflammation Kit (Cat. No. 552364), or it may be purchased separately (Cat. No. 560104).

Preparation of Mouse Inflammation Standards for use with the BD™ CBA Mouse Inflammation Kit (Cat. No. 552364)

1. Open one vial of the lyophilized Mouse Inflammation Standards. Transfer all the lyospheres to a polypropylene tube (BD Falcon™, Cat. No. 352097). Label the tube "Top Standard".
2. Reconstitute the standard with 2.0 mL of Assay Diluent. Allow the reconstituted standard to equilibrate for at least 15 minutes before making dilutions. **Mix the reconstituted protein by pipette only. Do not vortex or mix vigorously.**
3. Label additional 12 x 75 mm tubes (BD Falcon™, Cat. No. 352008) and arrange them in the following order: Top Standard, 1:2, 1:4, 1:8, 1:16, 1:32, 1:64, 1:128, and 1:256.
4. Add 300 μ L of Assay Diluent to each of the dilution tubes.
5. Perform a serial dilution by transferring 300 μ L from the Top Standard to the 1:2 dilution tube and mix thoroughly. **Do not vortex, mix by pipet only.** Continue making serial dilutions by transferring 300 μ L from the 1:2 tube to the 1:4 tube and so on to the 1:256 tube and mix thoroughly. Prepare one tube containing only Assay Diluent to serve as the 0 pg/mL negative control.

Suggested Companion Products

Catalog Number	Name	Size	Clone
552364	Mouse Inflammation Kit		B27
560104	Assay Diluent	30 mL	(none)
352097	BD Falcon™ Conical Centrifuge Tubes, 15 ML		(none)
352008	BD Falcon™ Round Bottom Tubes, 6 ML		(none)

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620280 Rev. 3



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. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
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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