

Technical Data Sheet

Mouse Th1/Th2 Cytokine Standards

Product Information

Material Number:	552967
Size:	1 Vial(s)
Component:	51-2524KC
Description:	Mouse Th1/Th2 Cytokine Standards
Size:	1 vial (1 ea)
Storage Buffer:	Lyophilized in an aqueous buffered solution containing BSA and ProClin™ 150.

Description

The Mouse Th1/Th2 Cytokine Standards contain a mixture of individually lyophilized recombinant proteins made up of recombinant mouse Interleukin (IL)-2, IL-4, IL-5, Interferon- γ (IFN- γ), and Tumor Necrosis Factor (TNF). The reconstituted Mouse Th1/Th2 Cytokine Standards are designed for use as a standard control with the BD™ Cytometric Bead Array (CBA) Mouse Th1/Th2 Cytokine Kit (Cat. No. 551287). Please refer to the manual included with the BD™ Cytometric Bead Array (CBA) Mouse Th1/Th2 Cytokine Kit for further information.

Preparation and Storage

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

Lyospheres from 1 vial of the Mouse Th1/Th2 Cytokine Standards, when reconstituted in 2.0 mL Assay Diluent, approximates the CBA activity of mouse IL-2, IL-4, IL-5, Interferon- γ (IFN- γ), and Tumor Necrosis Factor (TNF) at a concentration of 5000 pg/mL. Following reconstitution, maintain the Mouse Th1/Th2 Cytokine 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 Th1/Th2 Cytokine Standards have been tested with the BD™ Cytometric Bead Array (CBA) Mouse Th1/Th2 Cytokine Kit (Cat. No. 551287) 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 Th1/Th2 Cytokine Kit (Cat. No. 551287). The Mouse Th1/Th2 Cytokine 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 Th1/Th2 Cytokine Standards). The Mouse Th1/Th2 Cytokine Standards should be reconstituted using Assay Diluent, which is provided with the BD™ Cytometric Bead Array (CBA) Mouse Th1/Th2 Cytokine Kit (Cat. No. 551287), or it may be purchased separately (Cat. No. 560104).

Preparation of Mouse Th1/Th2 Cytokine Standards for use with the BD™ CBA Mouse Th1/Th2 Cytokine Kit (Cat. No. 551287)

1. Open one vial of the lyophilized Mouse Th1/Th2 Cytokine Standards. Transfer all lyospheres to a polypropylene tube. 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 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
551287	Mouse Th1/Th2 Cytokine Cytometric Bead Array (CBA) Kit	100 Tests	(none)
560104	Assay Diluent	30 mL	(none)

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/pharmingen/protocols for technical protocols.

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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.

References

Cook EB, Stahl JL, Lowe L, et al. Simultaneous measurement of six cytokines in a single sample of human tears using microparticle-based flow cytometry: allergics vs. non-allergics. *J Immunol Methods*. 2001; 254(1-2):109-118. (Biology)
Dotti G, Savoldo B, Takahashi S, et al. Adenovector-induced expression of human-CD40-ligand (hCD40L) by multiple myeloma cells. A model for immunotherapy. *Exp Hematol*. 2001; 29(8):952-961. (Biology)

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