

HETEROBLOCK[®]

Two site sandwich immunoassays can suffer from false positive results caused by heterophilic antibody interference. Heterophilic antibodies give rise to a false positive signal by bridging the capture and detection antibodies. It is theorized that the interference is in part due to conformational changes of the detection antibody which are a result of conjugation. Conventional blockers (e.g., mouse serum, mouse IgG, goat serum, goat IgG, and others) can eliminate some but not all of the interference. Heterophilic antibody interference which is not eliminated by conventional blockers is largely ignored.

HeteroBlock[®] is designed to pick up where conventional blockers leave off. HeteroBlock[®] contains active and passive blocking agents. The active agents have a high affinity for heterophilic antibodies. Thus, HeteroBlock[®] should reduce the incidence of false positive results.

HeteroBlock[®] is typically formulated into the sample diluent at various concentrations to establish the working concentration for each antibody pair.

HeteroBlock[®] offers the following advantages:

- ☺ Contains specific and non-specific blockers
- ☺ Contains active and passive agents
- ☺ Eliminates more false positives
- ☺ Yields a stable assay signal
- ☺ Composed of purified IgG from animal sources
- ☺ µg quantities are needed to block

HeteroBlock[®] was used to eliminate a false positive signal under the following conditions:

Human Serum, Lot 8507, CRP Negative	HeteroBlock [®] at 500 µg/mL	Goat Anti-Human CRP Coated Latex Particles	Agglutination Result
50 µL	0 µL	50 µL	+2,3
50 µL	1 µL	50 µL	+2
50 µL	2 µL	50 µL	+2
50 µL	3 µL	50 µL	+1
50 µL	4 µL	50 µL	+1
50 µL	5 µL	50 µL	Negative

PRODUCT DATA REPORT

Product:	HeteroBlock [®]
Application:	HeteroBlock [®] is an active blocking reagent that can eliminate interference caused by heterophilic antibodies in two-site sandwich immunoassays.
Use:	To establish parameters for each antibody pair, add increasing quantities (2, 4, 8, 16, 32, and so on μ g) of HeteroBlock [®] to the sample diluent. Then dilute the patient sample, incubate, and run the assay.
Catalog Number:	500-11-001
Package Size:	5 mg/vial
Price:	\$25/mg
Form:	Purified IgG from animal sources
Purity:	>98% by SDS-PAGE
Buffer:	Phosphate buffered saline, pH 7.2
Stabilizer:	None
Preservative:	None
Concentration:	5 - 10 mg/mL
Long-Term Storage:	Frozen
Short-Term Storage:	Refrigerate
Shipping Temp:	Ambient

FOR MANUFACTURING USE