

PRODUCT INFORMATION

LIFECODES[®] Serum Cleaner (GPR) General Purpose Reagent for Laboratory Use

SUMMARY AND EXPLANATION

LIFECODES Serum Cleaner is a general purpose reagent designed to reduce the high background signal found in some sera due to nonspecific binding of human serum components in flow bead immunoassays. The microparticles are preincubated with high background producing sera and then removed. The treated sera can then be used in assays employing flow bead immunoassays utilizing antigen coated beads.


PRINCIPLES OF THE PROCEDURE

Flow bead immunoassays utilize antigen coated beads as targets for binding of specific antibody in a sample of human serum. An aliquot of beads is allowed to incubate with a small volume of test serum sample. The sensitized beads are then washed to remove unbound antibody. An anti-human IgG antibody conjugated to Phycoerythrin is then added. After another incubation, the test sample is diluted and analyzed. The signal intensity from each bead is compared to the signal intensity of a negative control bead included in the bead preparation to determine if the bead is positive or negative for bound alloantibody.

Nonspecific binding of human serum components to the beads can obscure the true results of the assay leading to false positives or negatives, with specific beads. Pre-incubation of the serum with LIFECODES Serum Cleaner is used to reduce the high background signal due to nonspecific binding of human serum components to the beads. Once the background signal is reduced for the beads, the assay results should be easier to interpret.

REAGENTS

A. IDENTIFICATION

| Reagent | Product Number | Fill volume | Storage | |
|-------------------------|----------------|-------------|---------|--|
| LIFECODES Serum Cleaner | 628222 | 100uL | 2-8°C |  Sufficient for 25 samples |

B. WARNINGS OR CAUTIONS

- (GPR) General Purpose Reagent for Laboratory Use.
- Biohazard:** All biological and sera samples should be treated as potentially infectious. **Use Universal Precautions when handling.**
- Due to the viscosity of the product, LIFECODES Serum Cleaner beads may appear dried after 2-8°C storage. Vortex the vial and spin briefly to recover the full volume.

C. STORAGE INSTRUCTIONS

Store at 2 - 8° C.

D. INSTABILITY INDICATIONS

Do not use LIFECODES Serum Cleaner product that is beyond the expiration date.

F. SPECIMEN COLLECTION AND PREPARATION

Serum samples should be prepared in accordance with the Flow bead immunoassay being performed.

PROCEDURE

A. Materials Provided:

LIFECODES Serum Cleaner Beads

B. Materials, Reagents and Equipment Required, but Not Provided (as listed or equivalent):

1. Vortex Mixer
2. Pipettors, Multichannel pipettors and Barrier filter tips (1-10µL, 20-200µL).
3. Rotator
4. Centrifuge

DIRECTIONS FOR USE

Note: If LIFECODES Serum Cleaner beads appear dried, vortex and spin briefly to recover the full volume.

1. Vortex LIFECODES Serum Cleaner beads thoroughly just prior to use.
2. Dispense 4 µL of LIFECODES Serum Cleaner beads to a microcentrifuge tube labeled with the serum ID.
3. Aliquot 20 µL of the high background serum into the microcentrifuge tube and vortex for 30 seconds.
4. Continue mixing on a rotator for 30 minutes at room temperature.
5. Centrifuge the treated serum for 3 minutes at 15,000 x g to pellet the LIFECODES Serum Cleaner beads.
6. Being careful to avoid disrupting the pellet, transfer 12.5 µL of the treated sera to a new, labeled tube.
7. Serum is now ready for use in the assay of choice.

Note: If a larger volume of serum is desired, increase the LIFECODES Serum Cleaner beads and serum proportionally in steps 2 and 3. Follow the remainder of the protocol as written.

RESULTS

- Pretreatment of serum with LIFECODES Serum Cleaner should result in a reduced background in Luminex Antibody detection assays.

LIMITATIONS OF THE PROCEDURE

- Because there are different sources of high background, it is not expected that LIFECODES Serum Cleaner will result in reduced background in all cases.
- In instances where background is not reduced, it is not recommended to try larger amounts of the LIFECODES Serum Cleaner Beads.
- Care should be taken to make sure that LIFECODES Serum Cleaner Beads are not carried over into the assay.











TRADEMARKS USED

LIFECODES[®] Immucor Inc.

LIFECODES Serum Cleaner is a trademark of Immucor GTI Diagnostics, Inc.

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DEFINITION OF SYMBOLS (Product Labels and Supplemental Documents)

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|--------------|---|------------------------|---|-------------------------|--|------------------------------------|---|
| Batch Code |  | Catalog Number |  | Temperature limitations |  | Caution – See instructions for Use |  |
| Use By Date |  | Sufficient for N Tests |  | Do Not Freeze |  | Consult instructions for Use |  |
| Manufacturer |  | Warning |  | | | | |