Coating of Carboxyl Particles with Avidin Using EDC
PRODUCT DATA SHEET

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Description

Covalent Coupling (one step EDC coupling):

1. Add the following to a 15 mL glass centrifuge tube:

a. 2 mL of sodium acetate buffer, 0.01 M, pH 5.0

b. 2 mg of Antibody (Note: Avoid amino groups in buffers)

c. 2 mL of 50 mg/ml Carboxyl particles

d. 20 mg of EDC

2. Vortex and incubate for two hours at ambient temperature on a rotary mixer or with occasional vortexing or shaking.

3. Centrifuge at 3000x g for 15 minutes.

4. Remove the supernatant carefully.

5. Resuspend the pellet in 4 mL of Isotonic Buffered Saline.

6. Repeat Steps 3 and 4 and resuspend the pellet in 2 mL of IBS to obtain 2 mL of 5% w/v suspension.

Note

1. For magnetic particles, use 0.5 mg of Antibody per 2 mL of 2.5% w/v magnetic particles and 5 mg of EDC. Use the magnetic Separator or magnetic Separator for the particle separation in Step 3.

2. This procedure is also for covalent coupling of other proteins such as monoclonal or polyclonal antibodies, antigens or other ligands. Acidic buffers such as phosphate, 0.1M or MES, 0.05 M can be used instead of acetate buffer.

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