

DETERMINATION OF THE BINDING CAPACITY OF GOAT anti-MOUSE IgG MAGNETIC PARTICLES

MATERIALS:

1. Gt. anti-Ms IgG magnetic particles, 1% w/v, Cat. # MM-40-10, Lot No. J01, 4.35 μm .
2. Ms-IgG FITC, Lot No. 10952, 5 $\mu\text{g}/\text{mL}$ in 1% diluent (IBS containing 1% normal goat serum and 1% fetal bovine serum)

PROCEDURES:

1. Adjust fluorimeter for excitation and emission at 490 and 520 nm respectively.
2. Set 100% emission with the Ms IgG-FITC solution
3. Vortex the Goat anti-Ms IgG(H&L) magnetic particles and add 50, 100, 150, 200,300 and 400 μL into six 12x75 mm tubes. Pellet the particles and aspirate the supernatant.
4. Add 1 ml of Ms IgG-FITC solution to every tube containing the pelleted particles. Vortex and incubate for 30 minutes.
5. Separate the Goat anti-Ms IgG(H&L) magnetic particles from the conjugate and read the fluorescence of the supernatant.
6. The fluorescence reduction is proportional to Ms IgG-FITC bound to Goat anti-Ms IgG(H&L) magnetic particles.

RESULTS:

The binding capacity of Goat anti-Ms IgG magnetic particles is approximately 0.8 μg of Ms IgG-FITC per mg of particles as shown in Fig. 1.

