

PROTEIN G COATED SURFACE

TECHNICAL NOTE N. 27

Sensitivity test

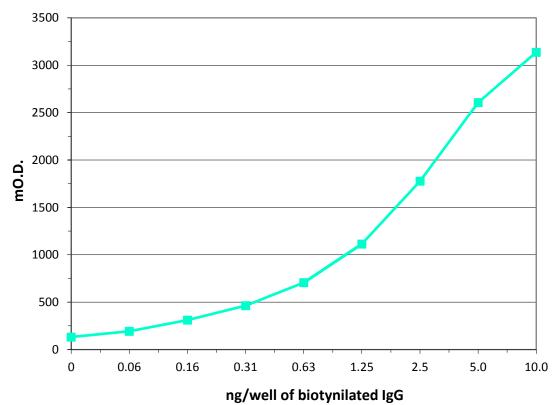
- 1. Add 100 μ l of different concentrations of human biotinylated IgG (from 1.56 to 100 ng/ml) to the wells of Protein G coated plate and incubate for 30 minutes at room temperature
- 2. Empty the wells and wash with 0.1 M PBS pH 7.2+0.05% Tween $^{\circledR}$ 20 four times
- 3. Add 100 μ l /well of Streptavidin-HRP (BioSpa product code SB01-61, diluted 1:20.000) and incubate for 30 minutes at room temperature
- 4. Empty the wells and wash with 0.1 M PBS pH 7.2+0.05% Tween[®] 20 four times
- 5. Add 100 μl /well of TMB substrate solution and incubate 15 minutes at room temperature
- 6. Stop the substrate reaction by adding 100 μ l /well of sulphuric acid 1 N and read the optical density values at 450 nm

The microplate sensitivity was calculated as the lowest biotinylated IgG concentration higher than the mean optical density plus 5 S.D. of 0 ng/ml biotinylated IgG concentration. Our experiment gave the following results:

- 0 ng/ml biotinylated IgG optical density mean (coming from 8 replicates) = 0.133
- standard deviation = 0.012
- mean + 5 S.D. = 0.193
- sensitivity = 0.056 ng/well of human IgG

Figure 2

Sensitivity of protein G coated plate



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