

DNP COATED SURFACE

TECHNICAL NOTE N. 40

Binding capacity test

1. Add 100 μ l of different concentrations of monoclonal mouse IgG anti DNP (*Merck-Sigma* cat. # Mab 2223 at 1 mg/ml), from 0.0005 to 0.500 μ g/ml, diluted in Sample Diluent, (*Biomat* code 400-1-100) to the wells of DNP coated plate and incubate for 60 minutes at room temperature
2. Empty the wells and wash with Wash Buffer, (*Biomat* code 200-1-100) four times
3. Add 100 μ l /well of goat anti-mouse IgG -HRP (*Jackson ImmunoResearch* code 115-035-003), diluted 1:25,000 in Diluent for HRP conjugate, (*Biomat* code 400-2-100) and incubate for 60 minutes at room temperature
4. Empty the wells and wash with Wash Buffer, (*Biomat* code 200-1-100) four times
5. Add 100 μ l /well of TMB substrate solution, (*Biomat* code 500-1-100) and incubate 15 minutes at room temperature
6. Stop the substrate reaction by adding 100 μ l /well of sulphuric acid, (*Biomat* code 600-1-100) and read the optical density values at 450 nm

The data show that a plateau has got starting with a mouse IgG anti DNP concentration of 0.125 μ g/ml.

This concentration means the well binding capacity we can express as:

- μ g/well = 0.0125 (12.5 ng/well)

Figure 1

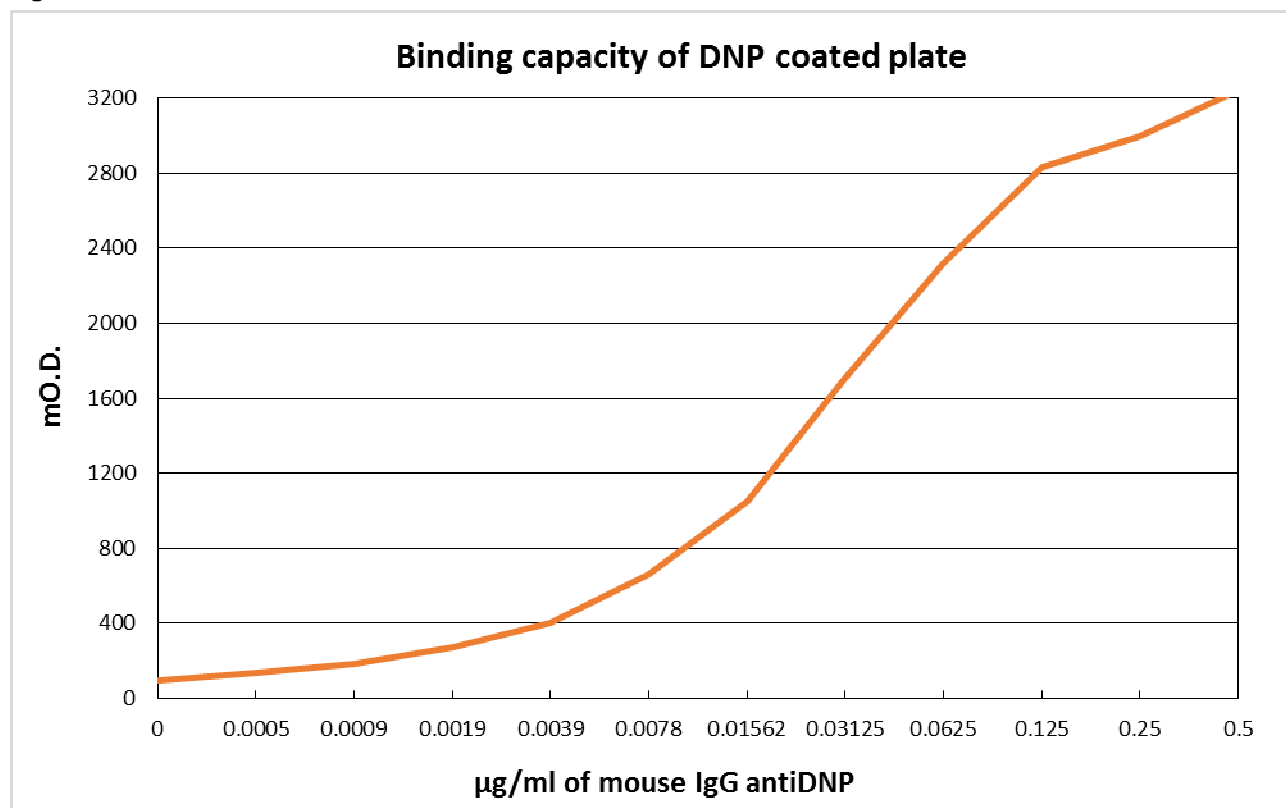


Figure 2: the figure gives an idea of the dilution factor to apply to the serum/plasma of the immunized mouse under evaluation; where k means a dilution of 1:1,000

