QED's GEM® (General ELISA Methodology) Kit provides all the reagents and supplies needed to custom design ELISA's for your applications. Each kit contains:

1. 6 96-well ELISA plates
2. 40 ml Coating Buffer
3. 40 ml Antibody Diluent
4. 200 ml 10X Wash Buffer
5. 0.5 ml Secondary Antibody-Horseradish Peroxidase Conjugate
6. 1 bottle Substrate Solution (ABTS)

Required but not provided:
Distilled H_2O

General ELISA Protocol

1. Antigen is bound to the wells of the ELISA plates in 50 ul Coating Buffer.

   We recommend testing a range of antigen concentrations from 5 ug/ml-200 ug/ml. Antigen-coated plates are sealed with plastic wrap and incubated overnight at room temperature.

2. The next day, plates are blocked for 30 minutes with 1% BSA-PBS-0.05% Tween 20. This solution is removed by inverting the plates, then serial dilutions of the first antibody in Antibody Diluent are added (50 ul/well) for 30 minutes at room temperature with gentle agitation (such as on a rocker platform).

3. Plates are washed 3x with 1X Wash Buffer by filling all wells then inverting plates.

4. Secondary antibody, anti-Ig-horseradish peroxidase (HRP) conjugate, is diluted in Antibody Diluent. The user should determine the optimal dilution for their secondary antibody. Diluted secondary antibody is added to each well (50 ul/well) for 30 minutes at room temperature with gentle agitation.

5. Plates are washed 3x with 1X Wash Buffer.

6. Each well receives 100 ul of substrate solution. Plates are incubated for 30 minutes at room temperature. Optical density (O.D.) readings are taken at dual wavelengths of 405 nm-490 nm or at single wavelength of 405 nm.

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