MABTECH

ELISA Flex: Bovine IgG (HRP)

3150-1HD-6 |

ELISA Flex kit for quantitative determination of native bovine IgG in solution, e.g. serum/plasma samples or cell supernatants.

The kit includes		3150-1HD-6 for 6 plates
Capture mAb:	MT134 (0.5 mg/ml)	300 µl
Detection mAb:	MT391-HRP	80 µl
Bovine IgG ELISA standard		1 vial
Standard reconstitution buffer A5		1 ml

To ensure total recovery of the stated quantity, vials have been overfilled.

Shipping and storage

Shipped at ambient temperature. All reagents should be stored at 4-8 °C upon receipt, except the standard which should be stored at -20 °C. Antibodies are supplied in sterile-filtered PBS with sodium azide (0.02%). The detection antibody is supplied in storage buffer with 0.002% Kathon CG. The expiry date indicates how long unopened products, stored according to instructions, are recommended for use.

General and Preparations

Specificity

The kit contains a matched pair of monoclonal antibodies (mAbs) specific for bovine IgG.

Standard range

1-100 ng/ml

Calibration

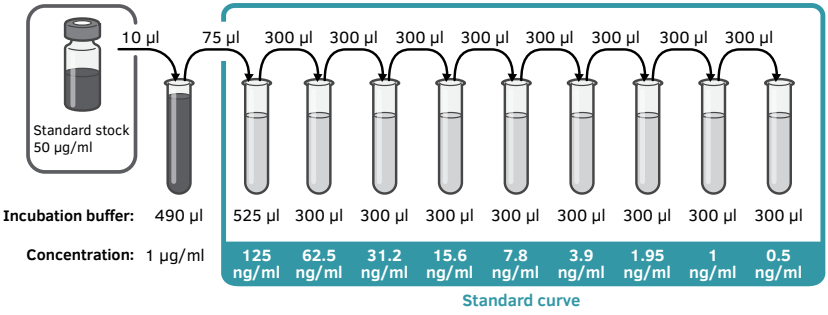
No international standard exists for calibration

Reconstitution of ELISA standard

Reconstitute the ELISA standard to a stock solution of 50 µg/ml by adding 0.5 ml of the standard reconstitution buffer. Allow the standard to dissolve for 5 minutes and mix thoroughly. The standard should be kept in aliquots at -20 °C. Avoid repeated freeze-thaw cycles.

Preparation of standard curve

Prepare within 30 minutes of use. Volumes are sufficient for duplicates.



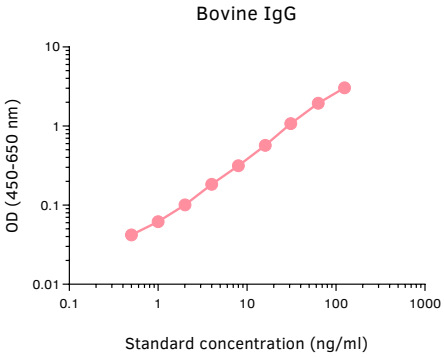
Protocol

Day 1

1. Add 100 µl/well of capture mAb MT134 diluted to 1 µg/ml in PBS, pH 7.4. Use high protein binding ELISA plates. Incubate overnight at 4-8 °C.

Day 2

2. Wash the plate 5 times with PBS containing 0.05% Tween 20 (300 µl/well).
3. Add 100 µl/well of samples or standards diluted in PBS containing 0.05% Tween 20 (PBS-Tween). Include assay background control, i.e. wells without standard. Incubate for 2 hours at room temperature.
4. Wash as above.
5. Add 100 µl/well of detection mAb MT391-HRP diluted 1:1000 in PBS-Tween. Incubate for 1 hour at room temperature.
6. Wash as above.
7. Add 100 µl/well of TMB substrate (product code: 3652-F10) and incubate at room temperature, protected from direct light for 15 minutes.
8. Add 100 µl/well of 0.2 M H_2SO_4 to stop the reaction.
9. Measure the optical density in an ELISA reader at 450 nm within 15 min. Preferably use a reader capable of subtracting a reference wavelength of between 570 and 650 nm. Representative standard curve shown below.



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