Product Details

**Applications**
This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

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<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<td>ELISA</td>
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Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**Target Species**
Bovine

**External Database Links**

- **UniProt:** [P07353](http://www.uniprot.org/uniprot/P07353) Related reagents
- **Entrez Gene:** [281237](http://www.ncbi.nlm.nih.gov/gene/281237) IFNG Related reagents

**Product Information**
The **Bovine Interferon Gamma Kit** is specific for bovine interferon gamma (IFN-gamma), a secreted cytokine involved in anti-viral activity and growth regulation belonging to the type II interferon family.

IFN-gamma is produced by lymphocytes in response to activation by specific antigens or mitogens. In addition to its anti-viral activity, IFN-gamma has important immunoregulatory functions in the activation of macrophages and anti-proliferative effects upon transformed cells.

**Test Principle**
This assay is based on a sandwich ELISA using two different mouse anti bovine IFN-gamma monoclonal antibodies and a recombinant bovine IFN-gamma as a standard.
**Intended Use**

**Bovine Interferon gamma ELISA Kit** (MCA5638KZZ) is an ELISA kit (5 x 96 wells) designed for the quantitative determination of bovine interferon gamma (BoIFN-gamma) in bovine serum, plasma and culture supernatant.

This assay can measure BoIFN-gamma in the range 0.025-50 ng/ml in bovine serum, plasma and culture supernatant. Detailed instructions for use of the kit can be found [here](#).

**Reagents in the Kit**

- 96 well microtiter plates x 5
- Microplate adhesive sealers x 5
- Coating antibody - 1 vial (MCA5638KZZA)
- Coating Buffer - 1 vial (5 x concentrated)
- Detection antibody – Biotin conjugated - 1 vial (MCA5638KZZC)
- Streptavidin:HRP conjugate - 1 vial (MCA5638KZZD)
- TMB Substrate 1 vial
- Bovine IFN gamma standard (400ng/ml – Lyophilized) 1 vial (MCA5638KZZB)

**Additional Reagents Required**

The following additional reagents and equipment are also required for successful use of this kit but are not contained within this kit:

- Wash buffer (available from Bio-Rad, BUF031A, or see kit insert for recipe)
- Blocking solution (available from Bio-Rad, Catalogue Code: BUF032A, or see kit insert for recipe)
- Stop Solution (see kit insert for recipe)
- Distilled or Deionised water
- Plate reader with 450nm reading capacity
- Pipettes for dispensing up to 250ul
- Tubes for preparing standard and sample dilutions.

**Instructions For Use**

Instructions for use can be found at [www.bio-rad-antibodies.com/uploads/IFU/MCA5638KZZ.pdf](#).

**References**


8. Takeet, M.I. et al. (2016) Differential IFN-Gamma (IFN-γ), Interleukin 10 (IL-10) and Cardiac Troponin I (cTnI) Responses in Natural Bovine Trypanosomosis in Nigeria Open Journal of Veterinary Medicine. 06 (07): 105-111.


Storage
Prior to use store all kit components at +4°C. DO NOT FREEZE. Please view the handbook for further details.
Storage in frost free freezers is not recommended. This Kit contains components that are photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature components within this kit.
The contents of this kit should be stored undiluted. Should components within this kit contain a precipitate we recommend microcentrifugation before use.

Guarantee
12 months from date of despatch

Health And Safety Information
Material Safety Datasheet documentation #10383 #10111 #10226 #10040 #10299 available at: https://www.bio-rad-antibodies.com/SDS/MCA5638KZZ
ELISA Coating Buffer (10383)
TMB Substrate (10111)
Streptavidin Conjugated Product (10226)
Antibody (10040)
Protein (10299)

Regulatory
This kit and its components are Research Use Only. Not for Therapeutic or Diagnostic use.

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