



VETERINARY

Bovine Interferon gamma ELISA Kit

The bovine interferon gamma ELISA kit provides reagents for the quantitative determination of bovine interferon (IFN) gamma in serum, plasma and cell culture supernatant samples.

Measurement of IFN gamma plays an important role in evaluating the immune status of animals. IFN gamma is a secreted, pro-inflammatory cytokine, produced by lymphocytes in response to activation by specific antigens or mitogens. It plays a critical part in immune and inflammatory responses, and has been identified as a potential therapeutic agent and marker for autoimmune and infectious diseases. Its measurement in cattle is particularly significant in relation to testing for bovine tuberculosis.

The ELISA kit includes two well-characterized monoclonal antibodies and recombinant bovine IFN gamma as a standard, plus five 96-well microtiter plates and reagents needed for 480 tests.

Convenient, flexible and reproducible

- Wide detection range covers physiological levels, disease states and *in vitro* stimulated cells
- Validated for serum, plasma and culture supernatant
- Quantitative results in one day
- Includes ELISA plates and reagents for 480 tests (5x 96 wells)

Bovine Interferon gamma Kit (MCA5638KZZ)



- Coat plate
- Add blocking buffer
- Add standards/samples
- Add detection antibody
- Add Strep:HRP conjugate
- Add TMB
- Add stop solution and read results

Analytical Time < 5 hrs

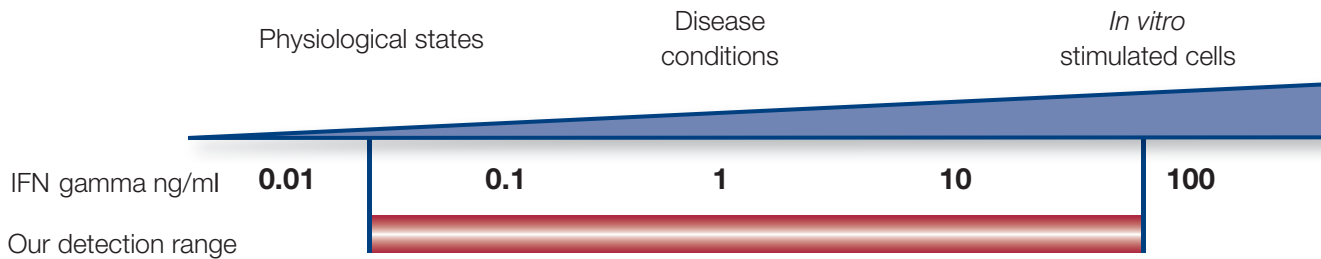
Easy to use

Same Day Results

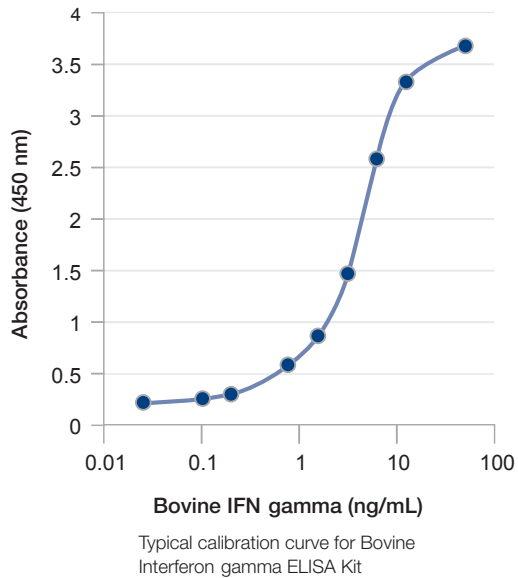
< 5 hrs

BIO-RAD

So easy-to-use, so broad in application



Bovine interferon gamma calibration curve



Reagents for measuring bovine cytokines

Interferon gamma is often measured alongside interleukin-4 (IL-4). These cytokines reciprocally regulate a number of T cell functions, including the expression of Th1 and Th2 cytokines by CD4⁺ and CD8⁺ effector cells. In parallel with the Bovine IFN gamma ELISA Kit, a series of antibody pairs validated for ELISA are available to measure levels of IL-4, IL-10 and tumor necrosis factor (TNF) alpha.

Specificity	Tests	Catalog Number
Bovine IFN gamma	480 (5x 96)	MCA5638KZZ

Specificity & Format	Clone	Quantity	Catalog Number
Bovine IFN gamma Purified (capture)	CC330	0.5 mg	MCA2112
Bovine IFN gamma Biotin (detection)	CC302	0.25 mg	MCA1783B
Bovine IL-4 Purified (capture)	CC313	0.5 mg	MCA2371
Bovine IL-4 Biotin (detection)	CC314	0.25 mg	MCA2372B
Bovine IL-10 Purified (capture)	CC318	0.5 mg	MCA2110
Bovine IL-10 Biotin (detection)	CC320	0.25 mg	MCA2111B
Bovine TNF-alpha Purified (capture)	CC327	0.5 mg	MCA2334
Bovine TNF-alpha Biotin (detection)	CC328	0.25 mg	MCA2335B

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