



Bovine interleukin 6 (IL-6) ELISA kit (7.8-500 pg/mL)

Cat. No.:	OB0125WXX-039
Assay Type:	Quantitative sandwich ELISA
Target Species:	Bovine
Assay Target:	IL-6
Size:	24T; 48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description

Bovine interleukin 6 (IL-6) ELISA kit (7.8-500 pg/mL) is a ready-to-use microwell, strip plate ELISA kit for analyzing the presence of bovine IL-6 in the range of 7.8-500 pg/mL.

Assay Principle

It is a sandwich enzyme immunoassay for the *in vitro* quantitative analysis of IL-6 in different samples. The microtiter plate provided in the kit is pre-coated with an antibody specific to Interleukin 6 (IL-6). Standards or samples with biotin-conjugated interleukin 6 (IL-6)-specific antibodies are then added to the corresponding microtiter plate wells. Avidin conjugated to horseradish peroxidase (HRP) is then added to each microtiter plate well and incubated. Upon addition of the TMB substrate solution, only the wells containing interleukin 6 (IL-6), biotin-conjugated antibody, and enzyme-conjugated avidin will show a color change. The enzyme-substrate reaction is terminated by the addition of sulfuric acid solution, and the color change is measured spectrophotometrically at $450 \text{ nm} \pm 10 \text{ nm}$. The concentration of Interleukin 6 (IL-6) in the sample is then determined by comparing the OD of the sample to a standard curve.



Background	IL-6 is a cytokine with multiple biological functions. It is a potent inducer of the acute phase response, acting on T cells, B cells, hematopoietic progenitors, hepatocytes, and cells of the central nervous system. It plays an important role in the eventual differentiation of B cells into Ig-secreting cells. It also acts as an actin, which is excreted into the bloodstream after muscle contraction and can promote lipolysis and improve insulin resistance.
Synonyms	HGF; HSF; BSF2; IL6; IFNB2; CDF; Hybridoma growth factor; Interferon beta-2; IFN - beta-2
Formula Weight	23,718 Da
Applications	Bovine interleukin 6 (IL-6) ELISA kit (7.8-500 pg/mL) is designed to measure bovine IL-6 in serum, cell culture supernatants, cell lysates, tissue homogenates, plasma, and other biological fluids.
Research Area	Inflammatory research; Cytokine research; Obesity

Specification

Sample Type	Serum; Plasma; Tissue homogenates; Cell lysates; Cell culture supernates; Other biological fluids
Detection Range	7.8-500 pg/mL
Sensitivity	3.0 pg/mL
Precision (Intra-assay)	CV<10%
Precision (Inter-assay)	CV<12%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.