

## Histamine ELISA kit# A05890

### KEY INFORMATION

- The most sensitive ELISA on the market
- The most specific ELISA on the market
- Quality Control included



### GENERAL INFORMATION

**Histamine biomarker:** One of the most important mediators of allergy & inflammation.

Histamine is a natural amine present in many animal and human tissues. It was initially only known as the mediator of **immediate allergy**.

Histamine plays actually a role in various physiological processes, such as **control of gastric acid secretion, neurotransmission and modulation of inflammatory and immunological reactions**. This competitive enzyme-immunoassay uses a prederivatization (derivate reagent with a structure close to the spacer arm used for the immunogen preparation) of histamine that enhances the sensitivity of the assay.

### FOCUS ON THE ASSAY

This Enzyme Immunoassay (ELISA) is based on the competition between unlabelled derivatized histamine and acetylcholinesterase (AChE) linked to histamine (tracer) for limited specific mouse anti-histamine antibody sites.

As a former step of this assay, histamine is derivatized to increase the affinity of histamine to the antibody and consequently increase the sensitivity of the assay.

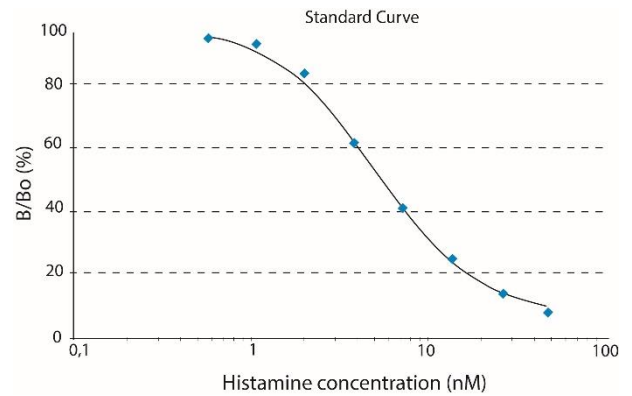
Tracer and standard (or sample) are incubated in wells which have been precoated with a mouse antihistamine antibody attached to the well. The plate is washed to remove any unbound reagent, and Ellman's Reagent (enzymatic substrate for AChE and chromogen) is added to the wells.

The AChE tracer acts on the Ellman's Reagent to form a yellow compound that strongly absorbs at 412 nm.

## TECHNICAL DATA

- Media Application: Plasma, urine, culture supernatant, various biological samples (broncho-alveolar lavage, brain, nervous tissues)
- Preanalytical phase:
  - Plasma, urine and culture supernatant: no extraction required
  - Liquid or solid biological samples: extraction with HClO<sub>4</sub>
- Specificity:

Histamine	100 %
3 methyl histamine	0.04 %
1 methyl histamine	0.01 %
Histidine	<0.01 %
Serotonine	<0.01 %
- Size: 96 wells
- Shipping: dry ice
- Stability: store at -20°C
- Shelf life: 18 months after production
- Sample volume: 100 µL
- Standard Curve Range: 0.4-50 nM
- Limit of detection: 0.5 nM



To note: Conversion formula (1 ng/mL = 9 nM)

## RELATED PRODUCT

Prolactin (mouse) ELISA kit	cat# A05136
Prolactin (rat) ELISA kit	cat# A05101
CGRP (human) ELISA kit	cat# A05481
CGRP (rat) ELISA kit	cat# A05482

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