# RESPIRATORY ELISA KIT

## For serum (Bovine) -Multiplex test- Double well

## BIO K 146/2

Respiratory disorders are of major concern for bovidae, given the frequency of such infections and the high number of animals affected. These infections occur in all countries that practice intensive livestock farming in which large numbers of animals are confined to small areas. Treatment and diagnosis are both complicated due to the multifactorial character of this diseases etiology. Viruses and bacteria combined with stress due either to transport in overcrowded vans or dirty or poorly-ventilated stabling, for instance, play a key role in triggering acute respiratory infections. These infections are particularly common among young animals, although they also affect adult animals. In most cases the animals that show signs of respiratory ailments harbour several pathogens, some of which may act synergistically. So, it is generally recognised that viruses are the first pathogens to intervene, whereas bacteria act as second invaders to worsen the animal's condition. Shipping fever is a good example of the synergism that can exist between a virus (PI3) and a bacterium, such as *Mannheimia*, in the respiratory tract. The BIO-X RESPIRATORY TRIVALENT ELISA kit consequently enables one to evaluate the humoral immune response of cattle to three pathogens commonly implicated in bovine respiratory infections. These are the bovine respiratory syncytial virus (BRSV), parainfluenza 3 virus (PI3) and adenovirus type 3.

### EIA Procedure

1- Microplate coated with monoclonal antibodies and inactivated viruses.
2- Add samples and positive control.
Incubate 1 hour at 21°C+/-3°C.
Wash
3- Add conjugate.
Incubate 1 hour at 21°C+/-3°C.
Wash
4- Add TMB chromogen
Wait 10 minutes
Add stop solution. Read at 450 nm

### Use of the kit

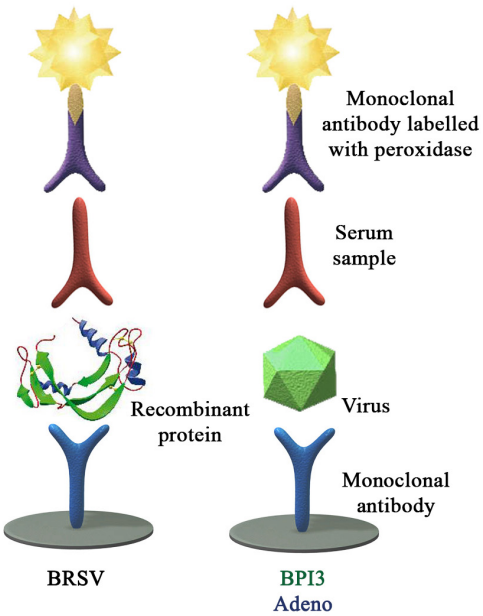
The kit is designed to follow seroconversion on paired sera

### Reliable Results

The use of monoclonal antibody as conjugate ensures excellent specificity and very reliable results.
The use of monoclonal antibodies to purify the viruses on the plate also makes it possible to obtain an excellent specificity

### Ease-of-Use

Minimal hands-on-time
Room temperature incubation
Results available in 140 minutes for single or batch testing




Bio-X Diagnostics - 38, Rue de la Calestienne (PAE) - 5580 Rochefort - Belgique
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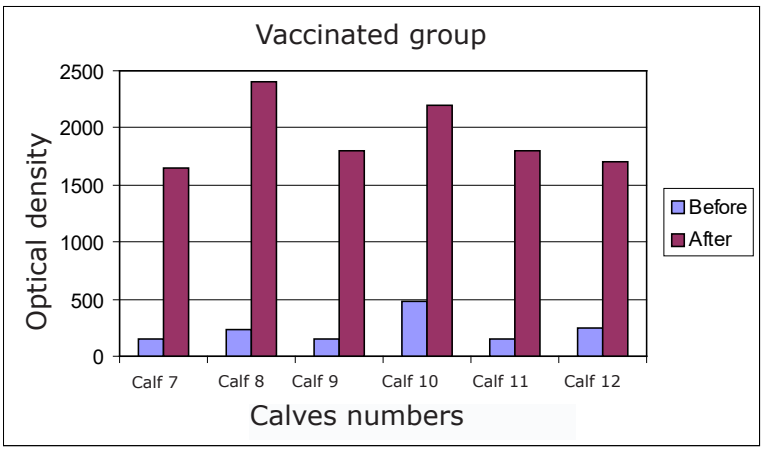
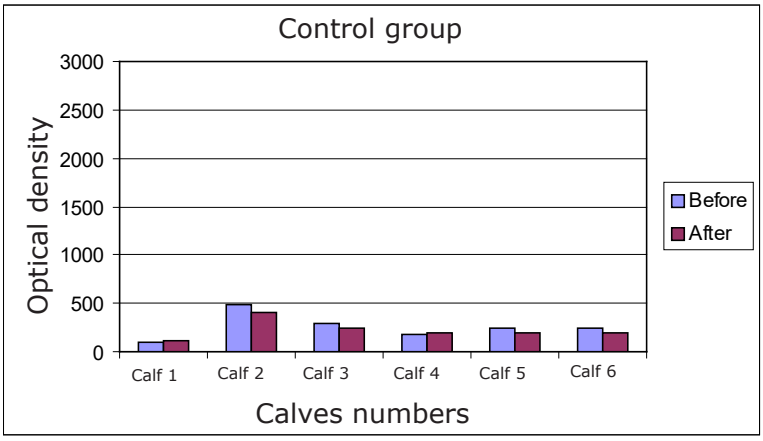
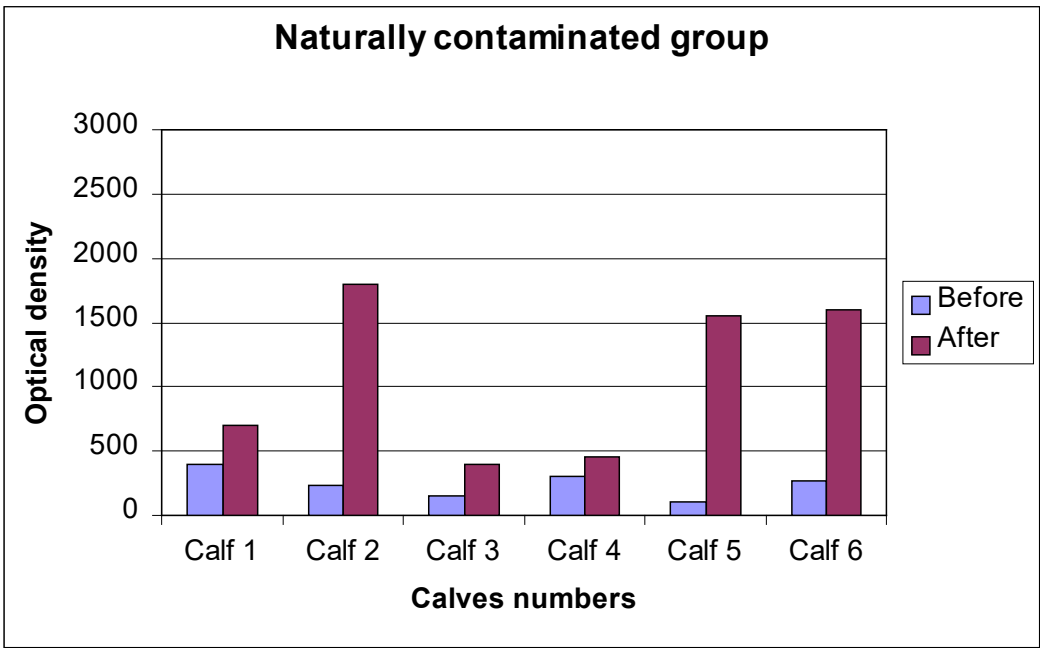
## Example of results - BRSV

A batch of 12 calves of approximately 8 months was divided into two groups. The first group was vaccinated with an inactivated commercial vaccine. The second group was not vaccinated. Before vaccination, the 12 calves were blood sampled. After the second vaccination, the 12 calves underwent a blood sampling. The paired sera were tested with the Bio K 146 kit of Bio-X Diagnostics.




## Example of results - Adenovirus 3

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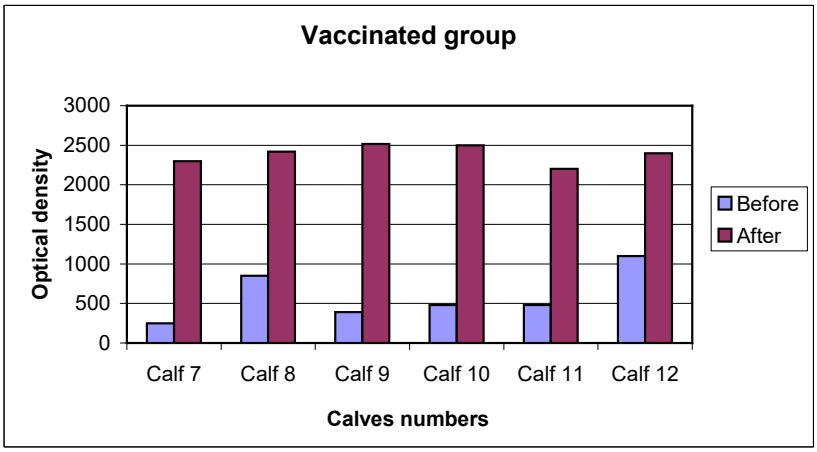
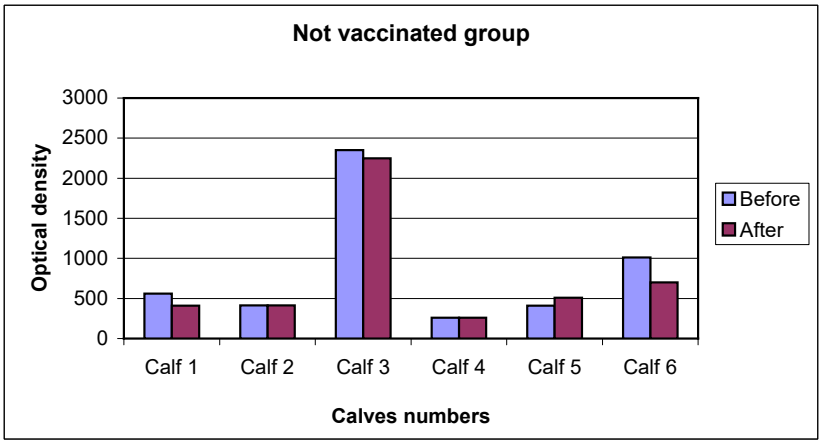
## Example of results - PI3

A batch of 12 calves of approximately 6 months was divided into two groups. The first group was vaccinated with an inactivated commercial vaccine. The second group was not vaccinated. Before vaccination, the 12 calves were blood sampled. After the second vaccination, the 12 calves underwent a blood sampling. The paired sera were tested with the Bio K 146 kit of Bio-X Diagnostics.

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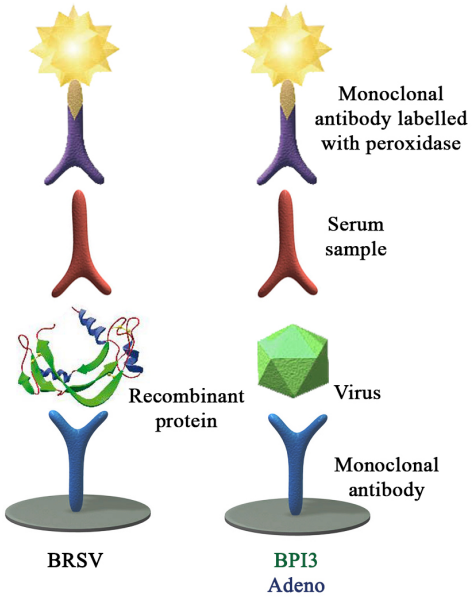
## Composition of the kit

BIO K 146  RESPIRATORY ELISA KIT (BRSV - PI3 - Adenovirus 3)

| | BIO K 146/2 |
|---|---|
| Microplates | 2 |
| Washing solution | 1 x 100 ml (20x) |
| Dilution buffer | 1 x 50 ml  (5x) |
| Conjugate | 1 x 0.5 ml  (50x) |
| Positive serum | 1 x 0.5 ml  (1x) |
| Single component TMB | 1 x 25 ml  (1x) |
| Stopping solution | 1 x 15 ml  (1x) |

1 year of stability between +2°C and +8°C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