

Adia^X - Bovine range Vet

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Adiavet, a benchmark range for PCR diagnosis of regulated ruminant diseases

i BRIEF OVERVIEW OF OUR BIO-X BOVINE DIAGNOSTIC EXPERTISE

Bio-X Diagnostics has been involved for decades in the diagnosis of regulated ruminant diseases. We have developed real expertise in regulated diseases, including those listed in the new European Animal Health Law (AHL):

Virus	ADIAVET range	ADIACONTROL range	Animal Health Law
Bluetongue virus	ADI352 - ADIAVET™ BTV Real Time	ADC35EPC	Category C, D, E disease
Bluetongue virus type 3	ADI541 - ADIAVET™ BTV type 3 Real Time	ADC71EPC	Category C, D, E disease
Bluetongue virus type 4	ADI541 - ADIAVET™ BTV type 4 Real Time	ADC54EPC	Category C, D, E disease
Bluetongue virus type 8	ADI381 - ADIAVET™ BTV type 8 Real Time	ADC35EPC	Category C, D, E disease
Bovine viral diarrhoea virus	ADI105 - ADIAVET BVDV Real Time	ADC10EPC	Category C, D, E disease
Epizootic haemorrhagic disease virus	ADI721 - ADIAVET EHDV Real Time	ADC72EPC	Category D, E disease
Schmallenberg virus	ADI491 - ADIAVET Schmallenberg Real Time	ADC49EPC	Endemic disease

You will find a brief description of each disease in the [Product Presentations](#) and in the [Instructions of use](#) corresponding to each of the numbers listed above, which you can download from our www.biox.com website.

📄 IMPACT OF THE NEW EUROPEAN ANIMAL HEALTH LAW

Implementing Regulation (EU) 2018/1882 applies the European Animal Health Law (AHL) for the classification of regulated diseases (cattle diseases are listed under category C). These diseases are considered to present a considerable risk of spreading during the movement of animals between Member States, and for which diagnostic and preventive measures must be put in place to limit their spread.

Implementing Regulation (EU) 2020/2002 Annex II therefore lays down a number of preventive measures for controlling and early detection in cattle of Category C, D and E diseases such as **bluetongue virus (BTV)** and **bovine viral diarrhoea (BVD)**. While **epizootic haemorrhagic disease (EHD)** is a category D and E disease that must be monitored and declared within the Union.

RT-PCR is now considered the benchmark method for regulated diseases, and it is already used in the following products in our ADIAVET™ range:

- ADIAVET™ BTV Real Time
- ADIAVET™ BTV type 3 Real Time
- ADIAVET™ BTV type 4 Real Time
- ADIAVET™ BTV type 8 Real Time
- ADIAVET™ BVDV Real Time
- ADIAVET™ EHDV Real Time

Validated kits already available on the market



The six main kits in the ADIAVET range are already available and have been approved for use by ANSES given their classification as category C diseases.

They can be used alone or simultaneously on a single extraction.

The new ADIAVET™ PCR range allows a more efficient official diagnosis of bovine diseases in line with AHL requirements.

SPECIFICATIONS OF THE ADIAVET™ RT-PCR KITS FOR CATTLE:



Ready-to-use Duplex Kit:

- Pathogen (FAM).
- Endogenous internal control (HEX/VIC).
- Shelf-life 24 months at < -15 °C.



Detection of different genotypes (including new BTV3, BTV4, BTV8)

Sensitive and specific:

- Low detection limit.
- Validated with the same process (extraction protocols, rapid thermal program).
- LD_{PCR} control for PCR adoption.
- Supply of method extraction positive control (to validate both the extraction and amplification phases of the PCR method). This positive control can be used as a sentinel to track PCRs from batch to batch.

»» Fast program in 1 hr 15 min

- Each bovine disease diagnosis PCR can be run alone or in combination with another ADIAVET PCR method, as the PCR FAST run cycle temperatures are combined and harmonised within the range.

A single sample preparation and procedure:



TO ORDER:

Pathogen/Target	Species	Code	Description	Number of reactions
Bluetongue Virus	B, G, S	ADI352-100	ADIAVET™ BTV REAL TIME	100 R
		ADI352-500		500 R
Bluetongue Virus type 3	B, G, S	ADI711-100	ADIAVET™ BTV TYPE 3 REAL TIME	100 R
Bluetongue Virus type 4	B, G, S	ADI541-100	ADIAVET™ BTV TYPE 4 REAL TIME	100 R
Bluetongue Virus type 8	B, G, S	ADI381-100	ADIAVET™ BTV TYPE 8 REAL TIME	100 R
Bovine Viral Diarrhea Virus (BVDV)	B, G, S & W	ADI105-100	ADIAVET™ BVDV REAL TIME	100 R
		ADI105-500		500 R
Epizootic Hemorrhagic Disease Virus	B, G, S	ADI721-100	ADIAVET™ EHDV REAL TIME	100 R
		ADI721-500		500 R
Schmallenberg Virus (SBV)	B, G, S	ADI491-100	ADIAVET™ SCHMALLEMBERG REAL TIME	100 R
Magnetic bead nucleic acid extraction	-	NADI003	ADIAMAG™	200 R
		NADI003-XL	ADIAMAG™ XL	800 R

B, Bovine; G, Goat; S, Sheep; W, Wild Cervidae