

Adia^X Lyo BTV & EHDV

ADL73Y1_BTV-EHDV_PP01_(EN)_V01
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Freeze-dried real time triplex PCR tests for simultaneous detection

i A BRIEF OUTLOOK ON THE TWO DISEASES

The **Bluetongue virus** (RNA virus) is a non-contagious viral arthropod-borne infectious disease due to an Orbivirus from the Reoviridae family. It is mainly transmitted by hematophagous midges from the Culicoides genus. It induces serious syndromes in ovine species including fever, oedema and slimming, with a potential mortality. However, it is mainly asymptomatic in caprine species and domestic or wild ruminants, which are the virus reserve. Once thought to be restricted in Africa and parts of the Middle East, BTV has now become a concern in sheep-rearing countries around the world. In the past 10 years, severe outbreaks have occurred in Europe with important economic consequences. The clinical expression is widely dependent on environmental parameters (nutritional state, parasitism and bacterial infections concomitant) and on individual sensitivity. More than 35 serotypes exist with only partial or even no cross protections between each other.

The **Epizootic Hemorrhagic Disease Virus** (EHDV), discovered for the first time in 1955, in the United States of America, mainly affects cattle and cervids. There are seven serotypes of the virus, which belongs to the Orbivirus genus like bluetongue virus (BTV). The virus is transmitted by midges from Culicoides genus, just like BTV. In cattle, clinical signs of EHDV are similar to those of BTV, with fever, anorexia, lameness, respiratory distress and potential death. Sheep and goats can also be receptive and carry the virus, but show no clinical signs.

Early detection of the virus by RT-PCR makes it possible to limit the spread of EHDV before animals are moved to other regions or countries. And to make a differential diagnosis between these two pathogens with similar symptoms, as both diseases are classified as D-E at European level and subject to compulsory declaration.

*Do not
compromise
between
performance
and simplicity*



REDUCING OUR ENVIRONMENTAL FOOTPRINTING WITH ADIALYO™ RANGE

- Safe and easy handling and shipment at room temperature
- No more dry ice or Polystyrene
- Less energetic cost for shipment or storage



ADIALYO™ BTV/EHDV

First freeze-dried Triplex PCR tests for simultaneous detection

 **Constraint-free** shipping

 **Environment-friendly** products

 **Stable** at +4°C before rehydration



« ADIALYO™ BTV/EHDV sets the new reference for a worldwide fast and reliable PCR detection in compliance with AHL and environmental concern. »



Triplex PCR Kit:

- BlueTongue Virus (BTV), serotypes 1 to 35 (FAM)
- Epizootic Hemorrhagic Disease Virus (EHDV) (HEX or equivalent)
- Endogenous internal control for extraction and amplification (Cy5 labelled-probe)

Triplex : Time-saving for simultaneous detection of BTV and EHDV.

Easy to use:

- Shelf life of up to 24 months, regardless of the date of resuspension.
- Storage at +2/8°C before resuspension.
- Ready to use after rehydration, with 1 single pipetting.
- Robust for up to 3 freeze-thaw cycles.

Quick and reliable method:



- Validated with reference extraction method ADIAMAG™
- Quick run time for amplification (**only one hour**)
- The kit also runs on the same PCR program as the BTV kits in the ADIAVET™ range (BTV Real Time, BTV type 3 Real Time, BTV type 4 Real Time et BTV type 8 Real Time).
- Inhibitor-resistant
- High sensitivity

Optimise laboratory workflow and save time with fast results.

PCR samples:

- Whole blood
- Organ



One PCR, one well, two diagnostics

A single sample preparation and procedure:

sample



common DNA/RNA extraction



same PCR run time



TO ORDER:

Pathogen/Target	Species	Cat. Nb.	Product name	Reactions
Orbivirus	B, G & S	ADL73Y1-100	ADIALYO™ BTV/EHDV	100 R
		ADL73Y1-500		500 R
RNA/DNA Extraction with magnetic beads	-	NADI003	ADIAMAG™	200 R
		NADI003-XL	ADIAMAG™ XL	800 R

A : Avian, B : Bovine, E : Equine, G : Goat, P : Swine, P' : Boar, S : Sheep