

Adia^X - BVDV Triplex Lyo

ADL10Y1-BVDV_PP01_(EN)_V01
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New PCR Methods validated for BVD virus detection



i CONTEXT OF BOVINE VIRUS DIARRHEA DIAGNOSTIC

ADIALYO™ BVDV Triplex enables Bovine Viral Diarrhea Virus (BVDV) and Border Disease Virus (BDV) detection on whole blood, serum, tissue and milk samples from cattle, sheep, goats, and wild deer using real-time enzymatic amplification.

Screening for IPI (Immunotolerant Permanently Infected) calves from ear notch samples is also now a well established procedure in RT-PCR.

The new Animal Health Law (AHL) UE 2016/429

Commission Delegated Regulation (EU) 2020/689 of 17 December 2019 establishes minimum preventive measures for the control and early detection diseases, Bovine Viral Diarrhea is classified as a **category C** disease for cattle (diseases to be detected in order to avoid spreading); (RE 2020/2002 annexe III, section 6 for BVD diagnostic); (the FLI registration covers only cattle and not small ruminants).

VALIDATION FOR BIO-X DIAGNOSTICS BVDV LYO METHODS

Reliable and validated methods on *serum samples*:

| | Milk | Serum | Pool of Serum |
|-------------|--|-------|---------------|
| LOD methods | NED ref sample => 100% detected NED diluted 1/20 => 100% detected | | |

-  ■ Sensitivity 100 %
- Specificity 100 %
- LOD_{methods} with ADIAMAG: 160 DICT50/mL on serum and 1600 DICT50/mL on milk

Triplex PCR for better interpretation on pools

Reliable and validated methods on *ear notches samples*:

| | ADIAPURE™ CLASSIC LYSIS | ADIAPURE™ FAST LYSIS | ADIAMAG™ |
|-------------|--|-------------------------|----------|
| LOD methods | NED ref sample => 100% detected NED diluted 1/25 => 100% detected | | |

-  ■ Sensitivity 100 %
- Specificity 100 %
- LOD_{methods} : 16 DICT50/mL with ADIAPURE™ and 8 DICT50/mL with ADIAMAG™

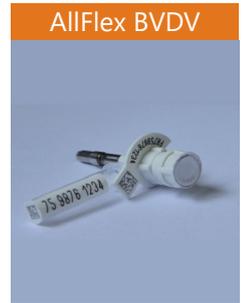
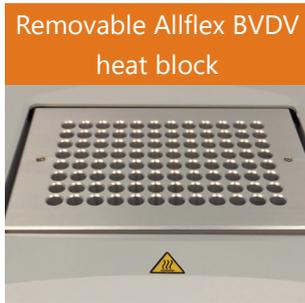
PERFORMANCE



The new Bio-X Diagnostics protocols deliver quick and reliable BVDV PCR results in compliance with AHL and the new standard of calves' ear notches matrix.

NEW BVDV HEATLYSE SYSTEM FOR A DIRECT LYSIS PROTOCOL ON EAR NOTCHES:

- Integrated unit for BVDV direct lysis protocol.
- Compatible with AllFlex and Caisley BVD ear notches.



BVD virus fast detection on calves' ear notches with the HeatLyse system

NEW VALIDATION WITH ADIAPURE™ TLB AND ADIAMAG™ ON EAR NOTCHES FOR 3 PROTOCOLS:

| | CLASSIC LYSIS protocol | FAST LYSIS protocol | ADIAMAG™ |
|--------------------------------|---|--------------------------------|--------------------------|
| Preparation | 1 ear notch+ 280 µl buffer L1 + 20 µl buffer L2 | | 1 ear notch + 350 µl LB3 |
| Incubation (Extraction) | 1 st : 20 min. +65°C | 1 st : 8 min. +65°C | 36 min automat included |
| | 2 nd : 15 min. +95°C | 2 nd : 8 min. +95°C | |
| Amplification | 5 µl RNA extract and 1 hour only with ADIALYO™ BVDV Triplex | | |

- Quick: Incubation time reduced by 50%
- Easy transfer: same incubation for the 2 periods in FAST Lysis protocol

Fast detection of the BVD virus from ear notches of IPI calves:

- Flash Lysis: RNA extraction in 16 minutes
- Easy tubes transfer from 65°C to 95°C
- Easy storage of 4 sets of 96 tubes
- Insulated handle and reusable Material

Easy to use for analysis flows in a context of unknown prevalence

TO PLACE AN ORDER:

| Code | Description | Nb. of reactions |
|-----------------------|--|------------------|
| ADL10Y1 | ADIALYO™ BVDV Triplex | 100 R |
| ADIADP10E1-100 & -400 | ADIAPURE™ TLB | 100 R & 400 R |
| NADI003 | ADIAMAG™ (magnetic beads extraction kit) | 200 R |
| NIDC22PL-20 | Easy Prep BVD | 20 |
| NQBD2-EU | GRANT dry heating unit | / |
| N96Bloc05ML | Removable AllFlex BVD heat block | / |
| N96TPACK | AllFlex BVD 4x96 grippable sockets | / |



Smart solutions for sharp decisions

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