Instruction manual
ADC10S02_BVDV_NO_(EN)_V03
09/2024

Extraction Positive Control BVDV EAR

Reference: ADC10S02

Ear notch BVDV positive control for extraction control

For veterinary *in vitro* use only

Kit composition

Content		ADC10S02 Kit 100 reactions
EPC BVDV EAR	Extraction Positive Control BVDV Ear Notch	1 lyophilized vial (To reconstitute)
NF-Water	Nuclease free water	1 x 1 mL tube (Ready to use)

Associated PCR kits

Associated kits	References
ADIAVET™ BVDV REAL TIME	ADI105-100 ou ADI105-500
ADIALYO™ BVDV Triplex	ADL10Y1-100 ou ADL10Y1-500

Revision history

Date	Version	Modifications
09/2022	V01	First version
06/2023	V02	Addition of associated PCR kit (ADIALYO BVDV Triplex)
09/2024	V03	Modification of the NF-Water tube from 500 µL to 1 mL

Note: minor typographical, grammar and formatting changes are not included in the revision history.

A. Test principle

The extraction positive control is made with a BVDV ear notch. It is calibrated between 1 and 10 x LOD_{METHOD} after resuspension.

This extraction positive control is introduced into each extraction series to validate the analytical steps.

B. Storage conditions

On receipt, the kit should be stored dry at +2/8 °C.
Reconstituted reagents should be stored at <-15 °C until the expiration date.
Store away from sunlight.
Do not mix reagents of two different batches.

C. Material required but not provided

- Real-time Thermal cycler and device.
- Instrument for homogenous mixing of tubes.
- Pipettes of 1 - 10 µL, 20 - 200 µL and 200 - 1000 µL.
- Nuclease-free filtered pipette tips.
- Nuclease-free microtubes of 1,5 mL and 2 mL.
- Powdered-free latex or nitrile gloves.
- Nuclease-free water.
- Associated PCR kits.
- Kit for nucleic acids extraction.

D. Warnings and precautions

- For veterinary in vitro use only.
- For animal use only.
- For professional use only.
- All instructions must be read before performing the test and strictly respected.
- Do not use reagents after the expiration date.
- Do not use reagents if the packaging is damaged.
- Do not open PCR wells or tubes after amplification.
- Do not mix reagents from different batches.
- Used material must be disposed of in compliance with the legislation in force regarding environmental protection and biological waste management.
- This kit contains products of animal origin. Certified knowledge of the origin and/or sanitary state of the animals does not totally guarantee the absence of transmissible pathogenic agents. It is therefore recommended that these products be treated as potentially infectious and handled observing the usual safety precautions (do not ingest or inhale).

E. Procedure

1. Reconstitution of the control

- Add **500 µL** of **« NF Water »** in « **EPC BVDV EAR** » vial.
- Vortex vigorously at least 20 seconds.
- After reconstitution, the control is calibrated between **1 et 10 X LOD_{METHOD}.**
- Aliquot and store at <-15°C. Do not defrost more than 3 times.

2. Extraction step control

a. Extraction

Add **5 µL** of « EPC BVDV EAR » to the first lysis buffer of extraction kit then make the extraction.

b. Amplification

Nucleic acids are extracted with the associated Bio-X Diagnostics PCR kits according to kit instructions.

c. Validation of results

All the obtained results during the different series of extraction constitute the control chart.

Bibliography

- U47-600-1: Méthodes d'analyse en santé animale - PCR (réaction de polymérisation en chaîne) - Partie 1: exigences et recommandations pour la mise en œuvre de la PCR en santé animale.

Symbols

Symbol	Signification
	Catalog number
	Manufacturer
	Temperature limitation
	Use by
	Batch code
	Consult Instructions for Use
	Contain sufficient for "n" tests
	For veterinary in vitro use only – For animal use only
	Keep away from sunlight

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