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ADIALYO_PCV_PP01_(EN)_V03
28/10/2024

Adia X Lyo PCV2 - PCV3

The new freeze-dried reference for the quantitative diagnosis of porcine Circoviruses

Do not compromise between performance and simplicity

A BRIEF OUTLOOK ON THE DISEASE

The agents involved in the piglet wasting disease and dermatonephropathy syndrome are DNA viruses of the Circoviridae family. They cause one of the major diseases affecting pigs with a significant economic impact worldwide. Circoviruses can be divided into **two classes**:

- ***PCV2 (Major syndrome now subclinical)***
- ***PCV3 (Emerging pathogen in reproductive syndromes)***

PROTOCOL FOR PCR TESTING OF PCV2 AND PCV3

Primers modified according to the international context for an optimal sensitivity (detection of PCV3 and of new variants such as PCV2b, PCV2d, PCV2e strains)

Amplification and quantification in 1 hour only by using the calibrated control provided

Possibility of performing a simultaneous PCR search of PCV2 and PCV3 from the same extraction

« ADIALYO™ PCV2 and ADIALYO™ PCV3 set the new reference for a worldwide fast and reliable PCR detection in compliance with environmental concerns. »

REDUCING OUR ENVIRONMENTAL FOOTPRINT WITH THE ADIALYO™ RANGE

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

ADIALYO™ PCV2 AND ADIALYO™ PCV3

First quantitative freeze-dried PCR tests for the detection of porcine Circoviruses

Constraint-free shipping

Environment friendly products

Stable at +4°C

1ST

Smart solutions for sharp decisions

CHARACTERISTICS OF THE ADIALYO™ PCV2 AND ADIALYO™ PCV3 PCR KIT

Duplex kit ready-to-use for :

- **PCV2 or PCV3** (FAM)
- Endogenous internal control (HEX)
- CTL + calibrated

High specificity and sensitivity for the detection of PCV2 strains:

Limits of Detection and Quantification of PCR :

- LoD_{PCR} 5 copies/µL
- LQ_{PCR} 10 copies/µL

Sample	Individual analysis	Pool analysis
Tissue (lung, heart, runt...)	✓	5
Whole blood / Serum	✓	5

Summary of the results: LoD_{method} and LoQ_{method}

	Serum			Organ		
	LoD	LoQ	Quantification domain	LoD	LoQ	Quantification domain
PCV2	25 c/µL	100 c/µL	100 to 10^6 c/µL	630 c/mg	630 c/mg	630 to 6,3 10^6 c/mg
PCV3	10 c/µL	100 c/µL	100 to 10^6 c/µL	144 c/mg	1440 c/mg	1,44 10^4 to 1,44 10^7 c/mg

Performance :

100%

Inclusivity

(more than 20 strains/ target tested)

integrating the new variants PCV2b, PCV2d, PCV2e

100%

Exclusivity

(more than 40 strains tested)

10 c/µL

Quantification

of the genome using the CTL + calibrated

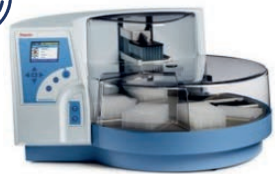
A single extraction and a common PCR run for the detection of PCV2 and PCV3:

sample

common DNA/RNA extraction

20 min

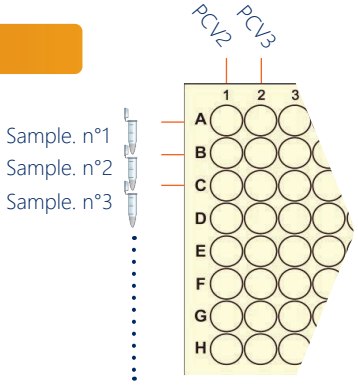
or



Adiamag™

common PCR program

60 min



TO ORDER :

Pathogen/Target	Code	Designation	Nb. of reactions
Porcine Circovirus 2	ADL67Y1-100	ADIALYO™ PCV2	100 R
Porcine Circovirus 3	ADL68Y1-100	ADIALYO™ PCV3	100 R
RNA/DNA extraction with magnetic beads	NADI003	ADIAMAG™	200 R
	NADI003-XL		800 R

BIOX Diagnostics

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