

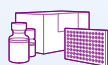


Testing Solutions for *Capripoxviruses*

Accurate. Reliable. Easy to Use.

Covering *Lumpy Skin Disease Virus* (LSDV), *Sheeppox Virus* (SPPV) and *Goatpox Virus* (GTPV)

Capripoxviruses (CaPV) pose major economic and animal-health challenges to livestock producers in affected regions. Rapid, reliable detection is essential for effective surveillance, disease control and vaccination monitoring.



NEW! cattletype CaPV Ab Multispecies*

A high-performing, easy-to-use ELISA for CaPV antibody detection to support control programs.

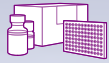


virottype CaPV qPCR reagents

Enabling reliable molecular identification of CaPV DNA in samples from infected animals.



* This diagnostic was **developed in collaboration with CSIRO**, Australia's national science agency, with funding and contribution by Meat & Livestock Australia and Animal Health Australia.



cattletype CaPV Ab Multispecies

The cattletype CaPV Ab Multispecies is a highly sensitive and specific double-antigen ELISA for the detection of antibodies to LSDV, SPPV, and GTPV in serum from susceptible species.

Why choose cattletype CaPV Ab Multispecies?

- **User-friendly**, ready-to-use colored reagents and a simple workflow
- **Suitable** for cattle, sheep and goat samples
- **Fast workflow for high throughput testing** – only 70 minutes of incubation time
- **Early detection of antibodies** shown in vaccination and infection trials

The cattletype CaPV Ab Multispecies was validated using sample panels sourced from infection trials (LSDV genotype 1.2 and 2.5) and vaccination trials (Neethling, RM65, Gorgan-based) as well as with field samples.



High diagnostic sensitivity

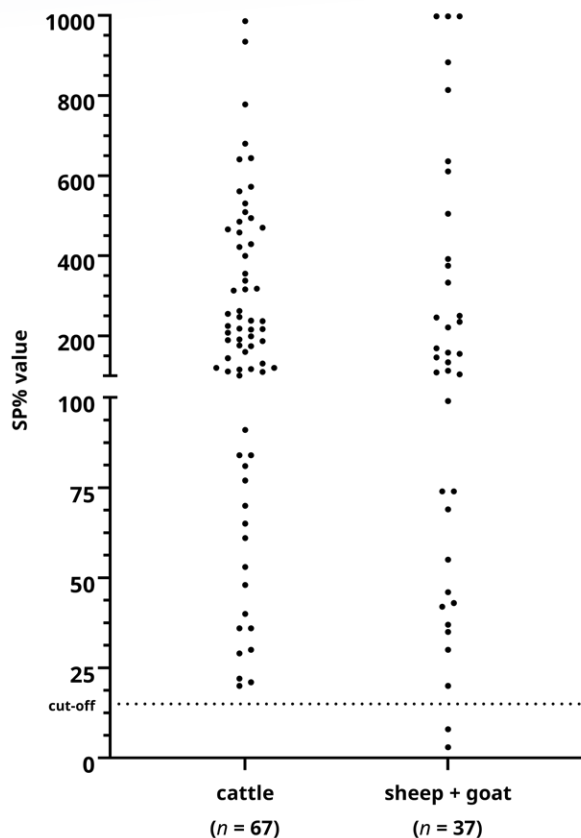


Figure 1: To assess diagnostic sensitivity of the cattletype CaPV Ab Multispecies, a panel of 104 sera from CaPV-infected and/or vaccinated cattle ($n = 67$) and sheep/goats ($n = 37$) was analyzed.

Results:

- **100 % diagnostic sensitivity** in cattle*
- **94.6 % diagnostic sensitivity** in small ruminants**

*(CI 95 %: 94.6 – 100.0 %), ***(CI 95 %: 82.3 – 99.0 %).

Comparable sensitivity to IPMA

Table 1: To assess diagnostic performance of the cattletype CaPV Ab Multispecies, panels of serial cattle and sheep sera from LSDV, SPPV, or GTPV infection and/or vaccination trials were tested in parallel with IPMA (*immunoperoxidase monolayer assay*).

Results: The cattletype CaPV Ab Multispecies showed **94.6% overall agreement** and **103.7% relative sensitivity** compared with IPMA.

cattletype CaPV Ab Multispecies			
	Pos.	Neg.	Total
IPMA	Pos.	2	164
	Neg.	14	22
	Total	16	186

Early seroconversion detection

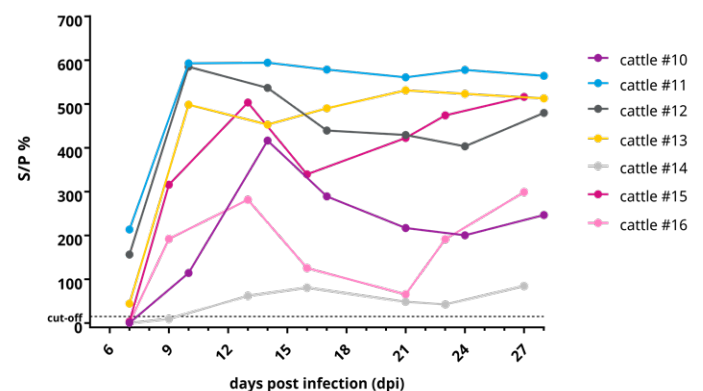
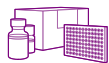


Figure 2: To assess the cattletype CaPV Ab Multispecies ability to detect early seroconversion, sera from 7 LSDV genotype 2.5–infected cattle collected for up to 28 days post-infection were analyzed.

Results: Seroconversion was observed in this study as early as **7 days post-infection (dpi)**, with all animals seroconverting by 13 dpi.



High specificity across species

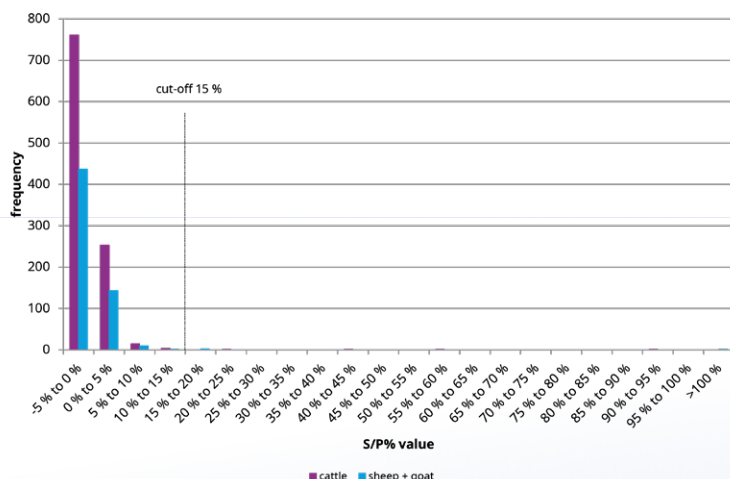


Figure 3: To assess specificity of the cattletype CaPV Ab Multispecies, 1,631 serum samples from cattle ($n = 1,037$) and small ruminants (sheep/goats; $n = 594$) were tested.

Results: The cattletype CaPV Ab Multispecies demonstrated **high and reliable specificity** across cattle, sheep, and goat samples, proving its use as a dependable tool to confirm freedom from *Capripoxvirus* infections.

- 99.6 % specificity in cattle*
- 99.3 % specificity in small ruminants**

*(CI 95 %: 99.0 – 99.9 %). **(CI 95 %: 98.3 – 99.7 %)



virotype CaPV qPCR reagents

The virotype CaPV pan Primers/Probes and Positive Control, combined with INDICAL's comprehensive PCR Master Mix offering, provide a robust solution to detect *Capripoxvirus* DNA (LSDV, SPPV, and GTPV) in ruminant samples.

- **High sensitivity** – detect down to 1 copy per sample
- **Unified cyclor protocol** when used with Master Mixes or selected assays from INDICAL
- **Excellent performance** demonstrated with both field infection and vaccination samples

Accurate and sensitive detection of *Capripoxvirus* DNA

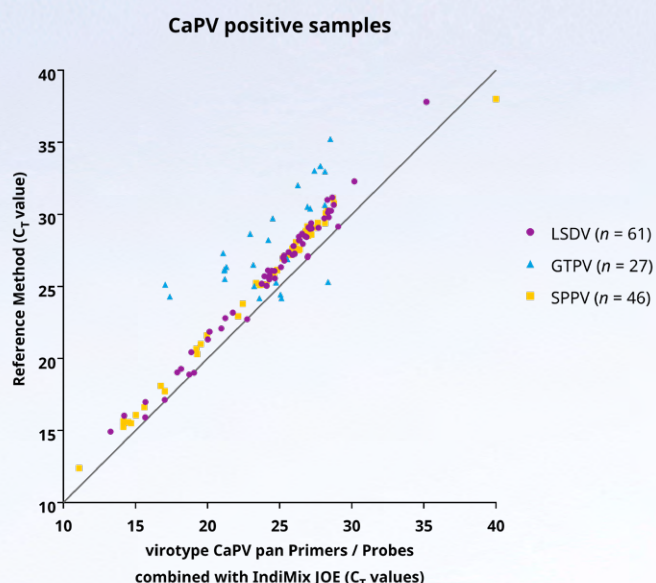


Figure 4: To evaluate diagnostic sensitivity, 134 *Capripoxvirus*-positive infection-study samples were tested using virotype CaPV pan Primers/Probes with IndiMix JOE versus the reference method at the National Reference Laboratory for Lumpy Skin Disease, Friedrich-Loeffler-Institut (FLI), Germany.

Results: Using INDICAL's virotype CaPV pan Primers/Probes together with IndiMix JOE, **all positive samples were correctly identified**, yielding **mostly equal or even lower C_t values** than the FLI reference method.



Ordering Information

Assays and reagents

Product	Short description	Cat. no.
cattletype CaPV Ab Multispecies*	ELISA for detection of antibodies to <i>Capripoxviruses</i> (CaPV) in cattle, sheep, and goats.	CT270603 (5 plates)
virotype CaPV pan Primers/Probes	Primers and probes for amplification of DNA from <i>Capripoxvirus</i> (CaPV) in real-time PCR.	PR286745 (100 reactions)
virotype CaPV pan Positive Control	Synthetically derived DNA from <i>Capripoxvirus</i> (CaPV). This product can be used as a positive control in real-time PCR.	PC286745 (30 reactions)

*Product availability/distribution: outside the U.S. and Canada

Master mixes and internal controls

			Cat. no. (mL)	
Target analyte	Product	Short description	S	M
DNA and RNA	IndiMix JOE	Real-time PCR master mix for DNA & RNA amplification, including intype IC-compatible primers and JOE-labeled probe for extraction and amplification monitoring.	MX299945 (1.5 mL)	MX299947 (10 x 1.5 mL)
DNA and RNA	IndiMix TAMRA	Real-time PCR master mix for DNA & RNA amplification, including intype IC-compatible primers and TAMRA-labeled probe for extraction and amplification monitoring.	MX299985 (1.5 mL)	MX299987 (10 x 1.5 mL)
DNA	intype IC-DNA	DNA template control for monitoring extraction efficiency and qPCR amplification	IC289980 (1 mL)	

DNA Master mixes including an internal control for use with our virotype primers and probes

			Cat. no. (number of reactions)	
Target analyte	Product	Short description	S	M
DNA	virotype Mix +IC(JOE)-DNA	qPCR master mix and internal DNA control, for bacterial and viral DNA.	MX289975 (96)	MX289977 (480)

Get in touch with our experts: www.indical.com

Email: support@indical.com | orders@indical.com | Phone: +49 341 124 54 0 | Fax: +49 341 124 54 60

Connect with us on LinkedIn: www.linkedin.com/company/indical

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INDICAL
BIOSCIENCE

INDICAL BIOSCIENCE GmbH
Deutscher Platz 5b
04103 Leipzig, Germany

