



AUSTRALIAN NATIONAL QUALITY ASSURANCE PROGRAM (ANQAP)

Inter-laboratory Veterinary Proficiency Testing

2021 Annual Report

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SECTION 1: Introduction

Introduction

Confidentiality

Methodology

Reporting

Tests not offered / retest samples unavailable in 2021

1. INTRODUCTION

In 2021, the Australian National Quality Assurance Program (ANQAP) facilitated inter-laboratory proficiency testing in 26 government and private veterinary laboratories from several countries including Australia, New Zealand, and the United States of America. The testing cycle for 2021 evaluated 7 testing rounds, comprised of 37 different veterinary tests. The 2021 program schedule was delayed due to the worldwide COVID-19 pandemic, which saw Melbourne in and out of lockdown for much of 2021. The Victorian Government's recommendation to "work from home if possible" also had a very significant impact on ANQAP's ability to provide the proficiency testing programs.

In conjunction with the Australian National Reference Laboratories, ANQAP provides proficiency testing for *Dichelobacter nodosus* and *Mycobacterium paratuberculosis*.

2. CONFIDENTIALITY

In order to protect the identity of participating laboratories, each laboratory is allocated a Confidential Number. Each laboratory knows only its own Confidential Number and not the Confidential Number of any other laboratory. This number is changed annually, and these numbers are not printed in the result tables in this report.

A special round for the BTV ELISA is run as part of the Laboratories for Emergency Animal Disease Diagnosis and Response (LEADDR) program. LEADDR does not keep the identity of laboratories confidential.

3. METHODOLOGY

3.1 Samples

ANQAP distributes freeze dried samples (most commonly serum) to participating laboratories. Each sample panel is, where possible, selected to produce a range of results from negative through to high positive. Typically, each sample panel includes six samples and each participant will receive a sample panel of their own to test.

Specimens for *Dichelobacter nodosus* and *Mycobacterium paratuberculosis* evaluation are prepared by the Australian National Reference Laboratories for these diseases.

3.2 Analysis

Definition of a satisfactory result

A consensus median (CM) result is calculated for each of the samples and laboratory results are classified on the variation demonstrated between the sample result and the consensus result. For tests which generate a titre, an acceptable variation range (AVR) is established. The AVR is generally taken as one dilution factor either side of the consensus result. Results which are the correct interpretation and within the AVR are classified as **Satisfactory**.

Example:

If the CM for Q Fever CFT is 3/32, the AVR will be between 3/16 and 3/64. A result that falls between 3/16 and 3/64 will be classified as **Satisfactory (✓)**.

Results outside the AVR demonstrate variation from the expected result and will generally result in the laboratory being asked to retest.

The retest result will be classified as:

- **Retest Result Satisfactory (R✓)** if the result falls within the AVR
- **Retest Result Demonstrating Minor Variation (Rm)** if the result falls outside the AVR but is within one dilution factor of the upper or lower AVR limit
- **Retest Result Unacceptable (RU)** if the result is more than two dilution factors outside the CM or the result differs in positive or negative interpretation from the CM interpretation

Example:

Using the CM and AVR given in the example above, a result outside 3/16 to 3/64 will require retesting. This retest result will then be classified.

A retest result of 1/128 is above the AVR but within a dilution factor of the upper AVR limit (between 3/64 and 3/128) and would be classified as Retest Result Demonstrating Minor Variation (**Rm**). Any result greater than 3/128 or lower than 3/8 would be classified as Retest Result Unacceptable (**RU**).

ANQAP recommends that laboratories given a classification of “**Unacceptable**” undertake corrective action within the laboratory to identify and rectify problems with the test. On request, ANQAP may supply a new panel of samples to the laboratory to assist in the corrective action process, if available.

Statistical Analysis of Results

Several ANQAP tests are suitable for statistical analysis. For these tests, a split-level analysis is undertaken using two test sera from the panel. The outcome of the statistical analysis is included in the test round reports. The statistical analysis has been excluded from this annual report.

4. REPORTING

ANQAP will issue each individual participating laboratory a personalised report once the test round has closed. The report will identify results that are within acceptable parameters and indicate where sample retests will be required.

5. TESTS NOT OFFERED / RETEST SAMPLES UNAVAILABLE IN 2021

Due to low stock volumes of positive sera, the following panels were not available this year:

- EBL AGID
- EBL ELISA - serum
- JD Caprine AGID
- L. hardjo MAT
- L. pomona MAT
- L. tarassovi MAT

Due to low stock volumes of positive sera/faeces, retest or replacement panels for the following panels were not available this year :

- AIV AGID
- B. ovis CFT
- B. ovis ELISA
- EIA AGID
- EVA VNT
- JD Bovine Culture
- JD Ovine AGID
- JD Ovine Culture
- NDV HIT

SECTION 2: Agar Gel Immunodiffusion (AGID)

Avian influenza virus (AIV) AGID

Bluetongue virus (BTV) AGID

Bovine viral diarrhoea virus (BVDV) AGID

Epizootic haemorrhagic disease (EHD) AGID

Equine infectious anaemia (EIA) AGID

Johne's disease – ovine (JD) AGID

Report Date	13/04/2022
Report Status	Final Report
Test Name	AIV AGID
Test Number (Code)	21/29
Test Month and Year	October 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Pos 1+	Neg	Neg	Pos >3+	Pos >3+	Pos >3+	✓
	Pos 1+	Neg	Neg	Pos 3+	Pos 2+	Pos 3+	✓
	Pos	Neg	Neg	Pos	Pos	Pos	✓ - Lab classified on interpretation only
Consensus Interpretation	Positive 1+	Negative	Negative	Positive 3+ to >3+	Positive 3+	Positive 3+ to >3+	
Acceptable Variation Range	Positive 1+ to 2+	N/A	N/A	Positive 2+ to >3+	Positive 2+ to >3+	Positive 2+ to >3+	

Note: One laboratory was classified on interpretation only.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	28/01/2022
Report Status	Final Retest Report
Test Name	BTV AGID
Test Number (Code)	21/11
Test Month and Year	July 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Pos 3+	Pos 3+	Neg	Neg	Pos 1+	Pos 1+	✓
	Pos 1+	Pos 2+	Neg	Neg	Pos 1+	Pos 1+	✓
	Pos 3+	Pos 2+	Neg	Pos 1+	Neg	Pos 1+	Samples 4 & 5 - R Samples 1, 2, 3 & 6 - ✓
	Pos	Pos	Pos	Pos	Neg	Pos	Samples 3, 4 & 5 - R Samples 1, 2 & 6 - ✓ Lab classified on interpretation only.
	Pos 3+	Pos 3+	Neg	Neg	Pos 2+	Pos 2+	✓
	Pos 2+	Pos 2+	Neg	Neg	Pos 1+	Pos 2+	✓
	Pos 2+	Pos 2+	Neg	Neg	Pos 2+	Pos 2+	✓
	Pos 2+	Pos 2+	Neg	Neg	Pos 1+	Pos 1+	✓
	Pos 2+	Pos 3+	Neg	Neg	Pos 1+	Pos 1+	✓
Consensus Interpretation	Positive 2+	Positive 2+	Negative	Negative	Positive 1+	Positive 1+	
Acceptable Variation Range	Positive 1+ to 3+	Positive 1+ to 3+	N/A	N/A	Positive 1+ to 2+	Positive 1+ to 2+	
Laboratory Number	Retest Results						Classification
	-	-	-	Neg	Neg	-	Sample 4 - R ✓ Sample 5 - RU
	-	-	Neg	Neg	Pos	-	Samples 3, 4 & 5 - R ✓ Lab classified on interpretation only.

Note: One laboratory was classified on interpretation only.

One laboratory was classified as Retest Result Satisfactory (R ✓) for Sample 4 and Retest Result Unacceptable (RU) for Sample 5.

One laboratory was classified as Retest Result Satisfactory (R ✓) for Samples 3, 4 & 5.

All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	29/11/2021
Report Status	Final Report
Test Name	BVDV AGID
Test Number (Code)	21/22
Test Month and Year	August 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Neg	Pos 1+	Pos 3+	Pos 3+	Neg	Pos 2+	✓
	Neg	Pos 1+	Pos 2+	Pos 1+	Neg	Pos 1+	✓
	Neg	Pos 1+	Pos 2+	Pos 2+	Neg	Pos 2+	✓
	Neg	Pos 1+	Pos 3+	Pos 2+	Neg	Pos 3+	✓
	Neg	Pos 1+	Pos 2+	Pos 2+	Neg	Pos 2+	✓
	Neg	Pos 1+	Pos 2+	Pos 2+	Neg	Pos 2+	✓
Consensus Interpretation	Negative	Positive 1+	Positive 2+	Positive 2+	Negative	Positive 2+	
Acceptable Variation Range	N/A	Positive 1+ to 2+	Positive 1+ to 3+	Positive 1+ to 3+	N/A	Positive 1+ to 3+	

All laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	27/08/2021
Report Status	Final Report
Test Name	EHD AGID
Test Number (Code)	21/06
Test Month and Year	June 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Pos 3+	Pos 2+	Pos 3+	Pos 2+	Neg	Neg	✓
	Pos 2+	Pos 2+	Pos 2+	Pos 2+	Neg	Neg	✓
	Pos	Pos	Pos	Pos	Neg	Neg	✓ - Lab classified on interpretation only
	Pos 3+	Pos 3+	Pos 3+	Pos 3+	Neg	Neg	✓
	Pos	Pos	Pos	Pos	Neg	Neg	✓ - Lab classified on interpretation only
	Pos 2+	Pos 2+	Pos 2+	Pos 2+	Neg	Neg	✓
	Pos 2+	Pos 2+	Pos 2+	Pos 2+	Neg	Neg	✓
							See comment
Consensus Interpretation	Positive 2+	Positive 2+	Positive 2+	Positive 2+	Negative	Negative	
Acceptable Variation Range	Positive 1+ to 3+	Positive 1+ to 3+	Positive 1+ to 3+	Positive 1+ to 3+	N/A	N/A	

Comment: One laboratory did not report any results by due date.

Note: Two laboratories were classified on interpretation only.

All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	26/05/2022
Report Status	Final Report
Test Name	EIA AGID
Test Number (Code)	21/38
Test Month and Year	November 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Pos 3+	Pos 2+	Neg	Pos 2+	Pos 2+	Neg	✓
	Pos 1+	Pos 1+	Neg	Pos 1+	Pos 1+	Neg	✓
	Pos 3+	Pos 2+	Neg	Pos 2+	Pos 1+	Neg	✓
	Pos 3+	Pos 2+	Neg	Pos 2+	Pos 1+	Neg	✓
	Pos 3+	Pos 1+	Neg	Pos 2+	Pos 1+	Neg	✓
	Pos 2+	Pos 1+	Neg	Pos 1+	Pos 1+	Neg	✓
	Pos 2+	Pos 2+	Neg	Pos 2+	Pos 1+	Neg	✓
	Pos 2+	Weak Pos	Neg	Weak Pos	Weak Pos	Neg	Samples 1, 3 and 6 - ✓ Samples 2, 4 and 5 - MV See comment below
	Pos 2+	Pos 1+	Neg	Pos 1+	Pos 2+	Neg	✓
Consensus Interpretation	Positive 2+	Positive 1+	Negative	Positive 2+	Positive 1+	Negative	
Acceptable Variation Range	Positive 1+ to 3+	Positive 1+ to 2+	N/A	Positive 1+ to 3+	Positive 1+ to 2+	N/A	

Comment: One laboratory classified on interpretation only.
One laboratory was classified as Result Demonstrating Minor Variation (MV) for Samples 2, 4 & 5.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	23/07/2021
Report Status	Final Report
Test Name	JD Ovine AGID
Test Number (Code)	21/02
Test Month and Year	May 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Neg	Neg	Pos	Pos	Pos	Pos	Samples 1 & 5 - U Samples 2, 3, 4 & 6 - ✓ Laboratory classified on interpretation only
	Pos 2+	Neg	Pos 1+	Pos 1+	Neg	Pos 2+	✓
	Pos	Neg	Neg	Pos	Neg	Pos	Sample 3 - U Samples 1, 2, 4, 5 & 6 - ✓ Laboratory classified on interpretation only
	Pos 2+	Neg	Pos 1+	Pos 2+	Neg	Pos 2+	✓
	Pos	Neg	Pos	Pos	Neg	Pos	✓ - Laboratory classified on interpretation only
	Pos	Neg	Pos	Pos	Neg	Pos	✓ - Laboratory classified on interpretation only
	Neg	Neg	Pos 1+	Pos 2+	Pos 1+	Pos 2+	Samples 1 & 5 - U Samples 2, 3, 4 & 6 - ✓
Consensus Interpretation	Positive 2+	Negative	Positive 1+	Positive 2+	Negative	Positive 2+	
Acceptable Variation Range	Positive 1+ to 3+	N/A	Positive 1+ to 2+	Positive 1+ to 3+	N/A	Positive 1+ to 3+	

Note: Four laboratories were classified on interpretation only.
Two laboratories were classified as Result Unacceptable (U) for Samples 1 & 5.
One laboratory was classified as Result Unacceptable (U) for Sample 3.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

SECTION 3: Complement Fixation Test

Brucella abortus (BB) CFT

Brucella ovis (OB) CFT

Johne's disease (JD) CFT

Q Fever (QF) CFT

Report Date	08/06/2022
Report Status	Final Retest Report
Test Name	B. abortus CFT
Test Number (Code)	21/25
Test Month and Year	September 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	2/32	Neg <4	3/16	3/128	Neg <4	2/16	✓
	2/16	Neg <4	2/8	4/64	Neg <4	3/8	✓
	4/16	Neg <1/4	4/8	4/128	Neg <1/4	4/8	✓
	1/32	Neg 0/2	1/16	2/64	Neg 0/2	1/16	✓
	1/8	Neg @ 1/4	1/16	1/32	Neg @ 1/4	2/8	Samples 1 & 4 - R Samples 2, 3, 5 & 6 - ✓
	4/40	Neg 0 @ 1/10	4/20	4/160	Neg 0 @ 1/10	1/40	Samples 1, 2, 3 & 5 - ✓ Samples 4 & 6 - R
	4/8	Neg @ 1/4	3/4	4/32	Neg @ 1/4	2/4	Samples 1, 3 & 6 - R Samples 2, 4 & 5 - ✓
	2/32	Neg 0/4	3/16	3/128	Neg 0/4	2/16	✓
	2/32	Neg	1/16	1/64	Neg	2/16	✓
	1/16	Neg @ 1/4	4/8	3/64	Neg @ 1/4	3/8	Sample 1 - R Samples 2, 3, 4, 5 & 6 - ✓
	2/32	Neg	4/16	4/64	Neg	4/16	✓
	2/32	Neg <4	4/16	1/128	Neg <4	4/16	✓
Median	Positive 2/32	Negative	Positive 1/16	Positive 4/64	Negative	Positive 2/16	
Acceptable Variation Range	Positive 2/16 to 2/64	N/A	Positive 1/8 to 1/32	Positive 4/32 to 4/128	N/A	Positive 2/8 to 2/32	
Laboratory Number	Retest Results						Classification
	1/256	-	-	4/32	-	-	Sample 1 - RU Sample 4 - R✓
	-	-	-	4/320	-	1/80	Sample 4 & 6 - RU
	3/16	-	3/8	-	-	3/8	Samples 1, 3 & 6 - R✓
		-	-	-	-	-	See comment

Comment: One laboratory did not report retest result by due date.
One laboratory was classified as Retest Result Unacceptable (RU) for Sample 1.
One laboratory was classified as Retest Result Unacceptable (RU) for Samples 4 & 6.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	11/03/2022
Report Status	Final Report
Test Name	B. ovis CFT
Test Number (Code)	21/27
Test Month and Year	September 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	2/32	2/64	Neg <8	Neg <8	Neg <8	3/64	✓
	2/32	4/128	Neg	Neg	Neg	2/64	Samples 1, 3, 4, 5 & 6 - ✓ Sample 2 - MV
	2/32	2/64	Neg <8	Neg <8	Neg <8	3/64	✓
	1/16	1/64	Neg 0/4	Neg 0/4	Neg 0/4	1/64	Sample 1 - MV Samples 2, 3, 4, 5 & 6 - ✓
							See comment
	Neg 0 @ 1/10	4/50	4/50	Neg 0 @ 1/10	4/20	4/50	Samples 1, 3 & 5 - U Samples 2, 4 & 6 - ✓
	3/32	3/64	Neg @ 1/8	Neg @ 1/8	Neg @ 1/8	3/64	✓
	3/32	4/64	Neg 0/8	Neg 0/8	Neg 0/8	3/64	✓
	2/32	2/64	Neg	Neg	Neg	2/64	✓
	2/32	1/128	Neg	Neg	Neg	2/128	✓
	1/32	2/64	Neg @ 1/8	Neg @ 1/8	Neg @ 1/8	3/64	✓
	4/32	4/64	Neg	Neg	Neg	4/64	✓
							See comment
	2/64	2/64	Neg <8	Neg <8	Neg <8	1/128	✓
Median	Positive 2/32	Positive 2/64	Negative	Negative	Negative	Positive 3/64	
Acceptable Variation Range	Positive 2/16 to 2/64	Positive 2/32 to 2/128	N/A	N/A	N/A	Positive 3/32 to 3/128	

Comment: Two laboratories did not report results by due date.
 One laboratory was classified as Result Demonstrating Minor Variation (MV) for Sample 2.
 One laboratory was classified as Result Demonstrating Minor Variation (MV) for Sample 1.
 One laboratory was classified as Retest Result Unacceptable (RU) for Samples 1, 3 & 5.
 All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	28/01/2022
Report Status	Final Retest Report
Test Name	JD Bovine CFT
Test Number (Code)	21/14
Test Month and Year	July 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	2/16	1/16	Neg	3/8	Neg	2/8	Samples 2, 4 & 6 - R Samples 1, 3 & 5 - ✓
	4/32	4/32	Neg <8	4/32	Neg <8	3/32	✓
	1/128	2/128	Neg 0@1:8	2/128	Neg 0@1:8	2/128	Samples 1, 2, 4 & 6 - R Samples 3 & 5 - ✓
	3/16	3/16	Neg @ 1:8	2/32	Neg @ 1:8	2/32	✓
Median	Positive 2/32	Positive 2/32	Negative	Positive 3/32	Negative	Positive 3/32	
Acceptable Variation Range	Positive 2/16 to 2/64	Positive 2/16 to 2/64	N/A	Positive 3/16 to 3/64	N/A	Positive 3/16 to 3/64	
Laboratory Number	Retest Results						Classification
	-		-		-		See comment
	2/64	1/64	-	1/64	-	4/32	Samples 1, 2, 4 & 6 - R ✓

Comment: One laboratory did not report retest results by due date.
One laboratory was classified as Retest Result Satisfactory (R✓) for Samples 1, 2, 4 & 6.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	08/06/2022
Report Status	Final Retest Report
Test Name	QF CFT
Test Number (Code)	21/23
Test Month and Year	September 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	2/32	Neg <8	Neg <8	2/16	Neg <8	2/32	Samples 1, 2, 3, 5 & 6 - ✓ Sample 4 - R
	1/80	Neg @ 1/10	Neg @ 1/10	1/40	Neg @ 1/10	1/80	Samples 1 & 6 - R Samples 2, 3, 4 & 5 - ✓
	3/16	Neg @ 1/8	Neg @ 1/8	3/32	Neg @ 1/8	2/32	Sample 1 - R Samples 2, 3, 4, 5 & 6 - ✓
	4/32	Neg @ 1/8	Neg @ 1/8	3/32	Neg @ 1/8	4/32	✓
	4/32	Neg	Neg	2/64	Neg	4/32	✓
	1/128	Neg <4	Neg <4	1/128	Neg <4	4/64	Samples 1 & 4 - R Samples 2, 3, 5 & 6 - ✓
Median	Positive 4/32	Negative	Negative	Positive 3/32	Negative	Positive 4/32	
Acceptable Variation Range	Positive 4/16 to 4/64	N/A	N/A	Positive 3/16 to 3/64	N/A	Positive 4/16 to 4/64	
Laboratory Number	Retest Results						Classification
	-	-	-	2/32	-	-	Sample 4 - R✓
	1/80	-	-	-	-	1/80	Samples 1 & 6 - Rm
	3/32	-	-	-	-	-	Sample 1 - R✓
		-	-		-	-	See comment

Comment: One laboratory did not report retest results by due date.
One laboratory was classified as Retest Result Demonstrating Minor Variation (Rm) for Samples 1 & 6.
All other laboratories results were classified as Result Satisfactory (✓) for this test.

SECTION 4: Enzyme Linked Immunosorbent Assay (ELISA)

Akabane ELISA

Bluetongue virus (BTV) ELISA

Bovine viral diarrhoea virus (BVDV) Antibody ELISA

Bovine viral diarrhoea virus (BVDV) Antigen ELISA - clot

Bovine viral diarrhoea virus (BVDV) Antigen ELISA - ear notch

Bovine viral diarrhoea virus (BVDV) Antigen ELISA - serum

Brucella abortus (BB) ELISA

Brucella ovis (OB) ELISA

Caprine arthritis/encephalitis virus (CAEV) ELISA

Enzootic bovine leucosis (EBL) ELISA - milk

Infectious bovine rhinotracheitis (IBR) ELISA

Johne's disease (JD) – bovine ELISA

Report Date	28/01/2022
Report Status	Final Retest Report
Test Name	Akabane ELISA
Test Number (Code)	21/15
Test Month and Year	July 2021

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	1.35	Neg	0.10	Pos	1.27	Neg	0.21	Pos	0.24	Pos	0.26	Pos	✓
	1.02	Neg	0.12	Pos	1.04	Neg	0.11	Pos	0.32	Pos	0.34	Pos	✓
	1.46	Neg	0.07	Pos	1.45	Neg	0.07	Pos	0.14	Pos	0.13	Pos	✓
	1.54	Neg	0.05	Pos	0.81	Neg	0.05	Pos	0.06	Pos	0.05	Pos	✓
	0.95	Neg	0.06	Pos	0.91	Neg	0.07	Pos	0.08	Pos	0.08	Pos	✓
	0.97	Neg	0.15	Pos	1.01	Neg	0.30	Pos	0.37	Pos	0.41	Pos	✓
	0.97	Neg	0.06	Pos	0.88	Neg	0.06	Pos	0.06	Pos	0.06	Pos	✓
	0.74	Neg	0.05	Pos	0.80	Neg	0.55	Neg	0.64	Neg	1.47	Neg	Samples 1, 2 & 3 - ✓ Samples 4, 5 & 6 - R
	0.79	Neg	0.08	Pos	0.72	Neg	0.07	Pos	0.09	Pos	0.10	Pos	✓
Consensus Interpretation	Negative		Positive		Negative		Positive		Positive		Positive		
Laboratory Number	Retest Results												Classification
		-		-		-							See comment

Comment: One laboratory did not report retest results by due date.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	19/11/2021
Report Status	Final Retest Report
Test Name	BTV ELISA
Test Number (Code)	21/10
Test Month and Year	June 2021

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	0.10	Pos	1.82	Neg	0.14	Pos	0.10	Pos	1.66	Neg	0.13	Pos	✓
	0.13	Pos	1.22	Neg	0.25	Pos	0.14	Pos	1.19	Neg	0.28	Pos	✓
													See comment
	0.08	Pos	1.43	Neg	0.11	Pos	0.08	Pos	1.41	Neg	0.11	Pos	✓
	0.12	Pos	0.88	Neg	0.20	Pos	0.12	Pos	0.84	Neg	0.30	Pos	✓
	0.03	Pos	1.53	Neg	0.05	Pos	0.03	Pos	1.49	Neg	0.25	Pos	✓
	0.09	Pos	1.42	Neg	0.12	Pos	0.08	Pos	1.43	Neg	0.14	Pos	✓
	0.03	Pos	1.43	Neg	0.06	Pos	0.02	Pos	1.20	Neg	0.21	Pos	✓
	0.11	Pos	0.44	Neg	0.17	Pos	0.12	Pos	0.51	Neg	0.35	Pos	✓
	0.08	Pos	1.31	Neg	0.08	Pos	0.08	Pos	1.32	Neg	0.08	Pos	✓
	0.11	Pos	1.18	Neg	0.23	Pos	0.12	Pos	1.23	Neg	0.29	Pos	✓
	0.16	Pos	1.31	Neg	0.28	Pos	0.12	Pos	1.30	Neg	0.37	Pos	✓
	0.07	Pos	1.44	Neg	0.11	Pos	0.07	Pos	1.47	Neg	0.12	Pos	✓
													See comment
	0.23	Pos	0.39	Pos	0.20	Pos	0.20	Pos	1.63	Neg	1.53	Neg	Samples 2 & 6 - R Samples 1, 3, 4 & 5 - ✓
Consensus Interpretation	Positive		Negative		Positive		Positive		Negative		Positive		
Laboratory Number	Retest Results												Classification
	-		0.93	Neg	-		-		-		0.34	Pos	Samples 2 & 6 - R ✓

Comment: Two laboratories did not report results by due date.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	27/08/2021
Report Status	Final Report
Test Name	BVDV Antibody ELISA
Test Number (Code)	21/07
Test Month and Year	June 2021

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	1.35	Pos	1.14	Pos	0.10	Neg	1.90	Pos	0.08	Neg	1.43	Pos	✓
	0.08	Pos	0.17	Pos	0.76	Neg	0.09	Pos	0.81	Neg	0.44	Pos	✓
	1.24	Pos	1.14	Pos	0.06	Neg	1.70	Pos	0.06	Neg	1.49	Pos	✓
	0.15	Pos	0.24	Pos	1.24	Neg	0.12	Pos	1.21	Neg	0.16	Pos	✓
	1.08	Pos	0.76	Pos	0.10	Neg	1.03	Pos	0.06	Neg	1.10	Pos	✓
	0.07	Pos	0.07	Pos	0.86	Neg	0.05	Pos	0.76	Neg	0.05	Pos	✓
	1.23	Pos	1.17	Pos	0.08	Neg	1.35	Pos	0.08	Neg	1.20	Pos	✓
	0.07	Pos	0.08	Pos	1.02	Neg	0.06	Pos	1.07	Neg	0.06	Pos	✓
	0.16	Pos	0.16	Pos	1.41	Neg	0.11	Pos	1.38	Neg	0.15	Pos	✓
	1.24	Pos	1.07	Pos	0.06	Neg	1.51	Pos	0.06	Neg	1.81	Pos	✓
	1.08	Pos	1.03	Pos	0.05	Neg	1.59	Pos	0.06	Neg	1.28	Pos	✓
Consensus Interpretation	Positive		Positive		Negative		Positive		Negative		Positive		

All laboratories and results were classified as Result Satisfactory (✓) for this test

Report Date	26/11/2021
Report Status	Final Report
Test Name	BVDV Antigen ELISA - clot
Test Number (Code)	21/18
Test Month and Year	August 2021

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	3.53	Pos	3.30	Pos	0.17	Neg	0.40	Neg	3.65	Pos	3.72	Pos	✓
	3.39	Pos	3.41	Pos	0.02	Neg	0.03	Neg	3.47	Pos	3.49	Pos	✓
	2.52	Pos	2.87	Pos	0.12	Neg	0.13	Neg	3.20	Pos	2.68	Pos	✓
	0.99	Pos	0.99	Pos	0.25	Neg	0.24	Neg	1.08	Pos	1.12	Pos	✓
	1.42	Pos	1.17	Pos	0.25	Neg	0.29	Neg	1.40	Pos	1.16	Pos	✓
													See comment
	2.80	Pos	2.99	Pos	0.11	Neg	0.09	Neg	2.86	Pos	2.80	Pos	✓
	1.27	Pos	1.27	Pos	0.39	Neg	0.39	Neg	1.38	Pos	1.38	Pos	✓
	3.04	Pos	3.24	Pos	0.07	Neg	0.07	Neg	3.02	Pos	3.15	Pos	✓
Consensus Interpretation	Positive		Positive		Negative		Negative		Positive		Positive		

Comment: One laboratory did not report results by due date.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	26/11/2021
Report Status	Final Report
Test Name	BVDV Antigen ELISA – ear notch
Test Number (Code)	21/19
Test Month and Year	August 2021

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	2.60	Pos	3.37	Pos	2.79	Pos	3.28	Pos	0.15	Neg	0.15	Neg	✓
	1.73	Pos	2.66	Pos	2.72	Pos	2.28	Pos	0.01	Neg	0.03	Neg	✓
	1.74	Pos	2.35	High Pos	2.31	High Pos	1.92	Pos	0.13	Neg	0.31	Neg	✓
	1.97	Pos	3.01	Pos	2.54	Pos	2.24	Pos	0.09	Neg	0.11	Neg	✓
	2.57	Pos	2.57	Pos	3.47	Pos	3.27	Pos	0.14	Neg	0.21	Neg	✓
	3.50	Pos	4.15	Pos	4.23	Pos	3.94	Pos	0.11	Neg	0.15	Neg	✓
	2.67	Pos	2.83	Pos	2.74	Pos	2.63	Pos	0.23	Neg	0.23	Neg	✓
	1.45	Pos	2.03	Pos	2.06	Pos	1.87	Pos	0.04	Neg	0.06	Neg	✓
	2.33	Pos	2.92	Pos	2.75	Pos	2.67	Pos	0.10	Neg	0.11	Neg	✓
	1.66	Pos	2.69	Pos	2.57	Pos	2.12	Pos	0.07	Neg	0.08	Neg	✓
	1.63	Pos	2.53	Pos	2.54	Pos	2.43	Pos	0.07	Neg	0.07	Neg	✓
	2.22	Pos	2.90	Pos	2.90	Pos	2.77	Pos	0.09	Neg	0.13	Neg	✓
													See comment
Consensus Interpretation	Positive		Positive		Positive		Positive		Negative		Negative		

Comment: One laboratory did not report results by due date.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	26/11/2021
Report Status	Final Report
Test Name	BVDV Antigen ELISA - serum
Test Number (Code)	21/17
Test Month and Year	August 2021

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	0.44	Pos	0.32	Pos	0.17	Neg	0.95	Pos	0.14	Neg	0.98	Pos	✓
	2.67	Pos	2.66	Pos	0.15	Neg	2.63	Pos	0.21	Neg	2.65	Pos	✓
	3.84	Pos	3.77	Pos	0.11	Neg	2.96	Pos	0.11	Neg	2.85	Pos	✓
	3.75	Pos	3.66	Pos	0.01	Neg	3.23	Pos	0.00	Neg	3.22	Pos	✓
	3.42	High Pos	2.81	High Pos	0.21	Neg	2.11	Pos	0.13	Neg	1.81	Pos	✓
	3.30	Pos	3.19	Pos	0.05	Neg	2.06	Pos	0.06	Neg	2.10	Pos	✓
	0.68	Pos	0.80	Pos	0.13	Neg	1.36	Pos	0.17	Neg	1.42	Pos	✓
	0.36	Pos	0.37	Pos	0.08	Neg	0.81	Pos	0.07	Neg	0.81	Pos	✓
	4.07	Pos	3.83	Pos	0.06	Neg	2.88	Pos	0.08	Neg	3.08	Pos	✓
	4.27	Pos	4.12	Pos	0.10	Neg	3.39	Pos	0.10	Neg	3.14	Pos	✓
	4.49	Pos	4.16	Pos	0.08	Neg	3.31	Pos	0.09	Neg	3.22	Pos	✓
	4.96	Pos	4.61	Pos	0.09	Neg	3.86	Pos	0.10	Neg	3.86	Pos	✓
	2.81	Pos	2.44	Pos	0.10	Neg	2.55	Pos	0.11	Neg	2.52	Pos	✓
	3.06	Pos	2.97	Pos	0.03	Neg	2.52	Pos	0.02	Neg	2.29	Pos	✓
	3.11	Pos	3.02	Pos	0.08	Neg	2.43	Pos	0.09	Neg	2.39	Pos	✓
	3.50	Pos	3.50	Pos	0.05	Neg	3.32	Pos	0.04	Neg	3.24	Pos	✓
	3.50	Pos	2.61	Pos	0.05	Neg	1.45	Pos	0.06	Neg	1.36	Pos	✓
	1.27	Pos	1.35	Pos	0.06	Neg	1.34	Pos	0.06	Neg	1.33	Pos	✓
	3.22	Pos	3.01	Pos	0.06	Neg	2.82	Pos	0.06	Neg	2.90	Pos	✓
	3.59	Pos	3.36	Pos	0.07	Neg	2.72	Pos	0.15	Neg	2.87	Pos	✓
Consensus Interpretation	Positive		Positive		Negative		Positive		Negative		Positive		

All laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	15/06/2022
Report Status	Final Retest Report
Test Name	B. abortus ELISA
Test Number (Code)	21/30
Test Month and Year	October 2021

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	0.07	Neg	1.05	Pos	1.00	Pos	0.98	Pos	1.03	Pos	0.08	Neg	✓
	1.17	Neg	0.05	Pos	0.36	Pos	0.38	Pos	0.06	Pos	1.33	Neg	✓
	-0.00	Neg	3.24	Pos	2.68	Pos	2.72	Pos	3.67	Pos	0.00	Neg	✓
	0.08	Neg	2.33	Pos	2.22	Pos	2.14	Pos	2.20	Pos	1.44	Pos	Samples 1-5 - ✓ Sample 6 - R
	0.04	Neg	2.42	Pos	2.45	Pos	2.46	Pos	2.31	Pos	0.07	Neg	✓
	0.04	Neg	1.16	Pos	1.28	Pos	1.30	Pos	1.22	Pos	0.05	Neg	✓
	0.05	Neg	0.82	Pos	0.98	Pos	0.95	Pos	0.75	Pos	0.05	Neg	✓
	0.04	Neg	2.46	Pos	2.39	Pos	2.43	Pos	2.40	Pos	0.25	Neg	✓
Consensus Interpretation	Negative		Positive		Positive		Positive		Positive		Negative		
Laboratory Number	Retest Results												Classification
	-		-		-		-		-		0.06	Neg	Sample 6 - R✓

All laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	27/08/2021
Report Status	Final Report
Test Name	B. ovis ELISA
Test Number (Code)	21/08
Test Month and Year	June 2021

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	4.00	Pos	0.20	Neg	4.00	Pos	0.27	Neg	0.95	Suspicious	0.92	Suspicious	Samples 1, 2, 3 & 4 - ✓ Samples 5 & 6 - U
	3.09	Pos	0.11	Neg	3.16	Pos	0.10	Neg	0.63	Pos	0.57	Pos	✓
													See comment
	1.32	Pos	0.07	Neg	1.28	Pos	0.08	Neg	0.90	Pos	0.83	Pos	✓
	4.56	Pos	0.20	Neg	4.65	Pos	0.21	Neg	0.95	Pos	1.04	Pos	✓
	4.16	Pos	0.08	Neg	4.21	Pos	0.18	Neg	0.82	Pos	0.88	Pos	✓
	3.40	Pos	0.05	Neg	3.35	Pos	0.04	Neg	0.51	Pos	0.47	Pos	✓
	Overflow	Pos	0.48	Neg	Overflow	Pos	0.50	Neg	1.67	Pos	1.55	Pos	✓
	3.21	Pos	0.05	Neg	3.06	Pos	0.05	Neg	0.46	Pos	0.42	Pos	✓
Consensus Interpretation	Positive		Negative		Positive		Negative		Positive		Positive		

Comment: One laboratory did not report results by due date.
One laboratory was classified as Result Unacceptable (U) for Samples 5 & 6.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	29/10/2021
Report Status	Final Report
Test Name	CAEV ELISA
Test Number (Code)	21/16
Test Month and Year	July 2021

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	0.93	Pos	0.48	Pos	0.09	Neg	0.85	Pos	0.09	Neg	0.83	Pos	✓
	3.08	Pos	1.47	Pos	0.13	Neg	2.88	Pos	0.13	Neg	3.16	Pos	✓
	3.71	Pos	1.80	Pos	0.35	Neg	4.06	Pos	0.36	Neg	3.80	Pos	✓
	2.70	Pos	1.34	Pos	0.11	Neg	2.37	Pos	0.14	Neg	2.43	Pos	✓
	2.57	Pos	0.37	Pos	0.01	Neg	3.17	Pos	0.00	Neg	3.13	Pos	✓
	3.72	Pos	2.10	Pos	0.35	Neg	3.82	Pos	0.43	Neg	3.69	Pos	✓
	0.07	Pos	0.08	Pos	0.65	Neg	0.22	Pos	0.68	Neg	0.25	Pos	✓
	4.44	Pos	1.56	Pos	0.22	Neg	4.59	Pos	0.26	Neg	4.58	Pos	✓
	3.56	Pos	1.78	Pos	0.08	Neg	3.03	Pos	0.08	Neg	2.95	Pos	✓
	2.20	Pos	1.01	Pos	0.08	Neg	1.98	Pos	0.08	Neg	2.02	Pos	✓
	3.35	Pos	1.85	Pos	0.07	Neg	3.13	Pos	0.06	Neg	3.15	Pos	✓
	3.72	Pos	2.24	Pos	0.09	Neg	3.66	Pos	0.09	Neg	3.45	Pos	✓
	2.97	Pos	2.03	Pos	0.27	Neg	2.81	Pos	0.26	Neg	2.99	Pos	✓
	0.08	Pos	0.08	Pos	0.86	Neg	0.26	Pos	0.85	Neg	0.27	Pos	✓
	3.61	Pos	1.94	Pos	0.11	Neg	3.43	Pos	0.12	Neg	3.45	Pos	✓
	0.10	Pos	0.11	Pos	1.18	Neg	0.46	Pos	1.17	Neg	0.49	Pos	✓
Consensus Interpretation	Positive		Positive		Negative		Positive		Negative		Positive		

All laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	23/07/2021
Report Status	Final Report
Test Name	EBL ELISA - Milk
Test Number (Code)	21/04
Test Month and Year	May 2021

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
													See comment
	1.49	Pos	2.08	Pos	0.01	Neg	0.01	Neg	1.55	Pos	1.57	Pos	✓
	1.39	Pos	1.90	Pos	0.03	Neg	-0.03	Neg	1.52	Pos	1.31	Pos	✓
Consensus Interpretation	Positive		Positive		Negative		Negative		Positive		Positive		

Comment: One laboratory did not report results by due date.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	11/03/2022
Report Status	Final Report
Test Name	IBR ELISA
Test Number (Code)	21/24
Test Month and Year	September 2021

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	0.72	Neg	0.05	Pos	0.76	Neg	0.06	Pos	0.09	Pos	0.05	Pos	✓
	0.15	Neg	2.69	Pos	0.15	Neg	2.61	Pos	2.61	Pos	2.62	Pos	✓
	1.16	Neg	0.18	Pos	1.24	Neg	0.14	Pos	0.11	Pos	0.08	Pos	✓
	0.10	Neg	3.50	Pos	0.10	Neg	3.44	Pos	2.95	Pos	3.34	Pos	✓
	1.26	Neg	0.13	Pos	1.39	Neg	0.14	Pos	0.18	Pos	0.12	Pos	✓
	0.99	Neg	0.10	Pos	1.00	Neg	0.12	Pos	0.15	Pos	0.10	Pos	✓
	0.21	Neg	4.81	Pos	0.13	Neg	4.48	Pos	4.43	Pos	4.80	Pos	✓
	0.78	Neg	0.06	Pos	0.82	Neg	0.06	Pos	0.06	Pos	0.08	Pos	✓
	1.09	Neg	0.05	Pos	1.10	Neg	0.05	Pos	0.06	Pos	0.05	Pos	✓
	1.48	Neg	0.09	Pos	1.48	Neg	0.08	Pos	0.13	Pos	0.09	Pos	✓
	1.10	Neg	0.10	Pos	1.10	Neg	0.12	Pos	0.19	Pos	0.13	Pos	✓
	0.73	Neg	0.11	Pos	0.78	Neg	0.12	Pos	0.09	Pos	0.11	Pos	✓
	0.74	Neg	0.04	Pos	0.73	Neg	0.03	Pos	0.05	Pos	0.03	Pos	✓
	1.27	Neg	0.06	Pos	1.29	Neg	0.05	Pos	0.07	Pos	0.05	Pos	✓
													See comment
													See comment
	0.06	Neg	2.54	Pos	0.06	Neg	2.56	Pos	2.41	Pos	2.68	Pos	✓
Consensus Interpretation	Negative		Positive		Negative		Positive		Positive		Positive		

Comment: Two laboratories did not report results by due date.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	27/08/2021
Report Status	Final Report
Test Name	JD Bovine ELISA
Test Number (Code)	21/05
Test Month and Year	June 2021

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	1.37	Pos	2.61	Pos	0.15	Neg	0.14	Neg	2.51	Pos	2.50	Pos	✓
	0.61	Pos	2.34	Pos	0.00	Neg	-0.00	Neg	2.12	Pos	1.99	Pos	✓
	1.42	Pos	3.96	Pos	0.21	Neg	0.21	Neg	2.88	Pos	2.73	Pos	✓
	1.80	Pos	4.00	Pos	0.26	Neg	0.21	Neg	3.41	Pos	3.52	Pos	✓
	1.06	Pos	4.30	Pos	0.12	Neg	0.13	Neg	1.92	Pos	2.41	Pos	✓
	0.82	Pos	3.93	Pos	0.19	Neg	0.16	Neg	2.65	Pos	2.48	Pos	✓
	1.09	Pos	4.22	Pos	0.12	Neg	0.09	Neg	2.90	Pos	2.93	Pos	✓
	1.40	Pos	4.43	Pos	0.16	Neg	0.17	Neg	2.90	Pos	3.01	Pos	✓
	0.88	Pos	2.77	Pos	0.08	Neg	0.08	Neg	2.37	Pos	2.31	Pos	✓
	1.06	Pos	2.89	Pos	0.11	Neg	0.14	Neg	1.71	Pos	1.53	Pos	✓
	1.40	Pos	2.90	Pos	0.04	Neg	0.03	Neg	2.34	Pos	2.37	Pos	✓
	0.75	Pos	2.87	Pos	0.09	Neg	0.08	Neg	2.17	Pos	2.38	Pos	✓
	1.61	Pos	3.42	Pos	0.15	Neg	0.10	Neg	2.88	Pos	2.98	Pos	✓
	1.31	Pos	2.81	Pos	0.07	Neg	0.07	Neg	2.23	Pos	2.01	Pos	✓
													See comment
	1.43	Pos	2.91	Pos	0.10	Neg	0.10	Neg	2.69	Pos	2.98	Pos	✓
Consensus Interpretation	Positive		Positive		Negative		Negative		Positive		Positive		

Comment: One laboratory did not report results by due date.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

SECTION 5: Haemagglutination Inhibition Test (HIT)

Newcastle Disease virus (NDV) HIT

Report Date	13/04/2022
Report Status	Final Report
Test Name	NDV HIT
Test Number (Code)	21/28
Test Month and Year	October 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Neg	Neg	128	Neg	128	128	✓
	Neg <4	Neg <4	32	Neg <4	32	64	Samples 1, 2 & 4 - ✓ Samples 3 & 5 - U Sample 6 - MV
	Neg <1/4	Neg <1/4	128	Neg <1/4	128	128	✓
	Neg <2	Neg <2	256	Neg <2	256	256	✓
	Neg @ 1/8	Neg @ 1/8	128	Neg @ 1/8	128	256	✓
	Neg	Neg	256	Neg	256	512	Samples 1, 2, 3, 4 & 5 - ✓ Sample 6 - MV
	Neg <2	Neg <2	256	Neg <2	256	128	✓
	Neg	Neg	256	Neg	256	256	✓
Median	Negative	Negative	Positive 1/181.02	Negative	Positive 1/181.02	Positive 1/181.02	
Acceptable Variation Range	N/A	N/A	Positive 1/90.51 to 1/362.04	N/A	Positive 1/90.51 to 1/362.04	Positive 1/90.51 to 1/362.04	

One laboratory was classified as Result Unacceptable (U) for Samples 3 & 5 and Result Demonstrating Minor Variation (MV) for Sample 6.
One laboratory was classified as Result Demonstrating Minor Variation (MV) for Sample 6.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

SECTION 6: Polymerase Chain Reaction (PCR)

Bovine viral diarrhoea virus (BVDV) PCR

Report Date	29/11/2021
Report Status	Final Report
Test Name	BVDV PCR
Test Number (Code)	21/21
Test Month and Year	August 2021

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	28.50	Pos	Not detected	Neg	22.19	Pos	Not detected	Neg	28.46	Pos	21.92	Pos	✓
	28.14	Pos	0.00	Neg	22.98	Pos	0.00	Neg	28.18	Pos	23.76	Pos	✓
	25.63	Detected	-	Not Detected	19.32	Detected	-	Not Detected	25.76	Detected	19.66	Detected	✓
	27.56	Pos	>50	Neg	19.83	Pos	>50	Neg	27.51	Pos	20.51	Pos	✓
	32.65	Pos	N/A	Neg	27.78	Pos	N/A	Neg	32.32	Pos	27.36	Pos	✓
	28.43	Pos	Undetermined	Neg	22.35	Pos	Undetermined	Neg	28.39	Pos	22.63	Pos	✓
	29.35	Pos	45.00	Neg	25.95	Pos	45.00	Neg	29.89	Pos	26.36	Pos	✓
	30.95	Pos	No amplification	Neg	23.82	Pos	No amplification	Neg	30.38	Pos	24.00	Pos	✓
	28.60	Pos	>45	Neg	23.71	Pos	>45	Neg	28.63	Pos	23.62	Pos	✓
	29.12	Pos	N/A	Neg	23.90	Pos	N/A	Neg	29.40	Pos	23.77	Pos	✓
	32.00	Pos		Neg	26.40	Pos		Neg	32.20	Pos	26.10	Pos	✓
	27.69	Pos	N/A	Neg	22.21	Pos	N/A	Neg	27.53	Pos	22.03	Pos	✓
	25.39	Pos	-	Neg	20.01	Pos	-	Neg	25.17	Pos	19.90	Pos	✓
	28.33	Pos	>45	Neg	20.77	Pos	>45	Neg	28.62	Pos	20.86	Pos	✓
	32.08	Pos	>50	Neg	23.88	Pos	>50	Neg	31.36	Pos	23.89	Pos	✓
	26.17	Pos	Not detected	Neg	19.82	Pos	Not detected	Neg	26.31	Pos	19.64	Pos	✓
Consensus Interpretation	Positive		Negative		Positive		Negative		Positive		Positive		

All laboratories and results were classified as Result Satisfactory (✓) for this test.

SECTION 7: Rose Bengal Plate Test (RBPT)

Brucella abortus (BB) RBPT

Report Date	26/05/2022
Report Status	Final Report
Test Name	B. abortus RBPT
Test Number (Code)	21/36
Test Month and Year	November 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Pos 3+	Pos 2+	Pos 3+	Neg	Neg	Pos 2+	✓
	Pos 3+	Pos 2+	Pos 3+	Neg	Neg	Pos 2+	✓
	Pos 3+	Pos 2+	Pos 3+	Neg	Neg	Pos 2+	✓
	Pos 4+	Pos 1+	Pos 3+	Neg	Neg	Pos 1+	✓
	Pos 3+	Pos 1+	Pos 3+	Neg	Neg	Pos 1+	✓
	Pos 2+	Pos 1+	Pos 3+	Neg	Neg	Pos 2+	✓
Consensus Interpretation	Positive 3+	Positive 1+ to 2+	Positive 3+	Negative	Negative	Positive 2+	
Acceptable Variation Range	Positive 2+ to >3+	Positive 1+ to 3+	Positive 2+ to >3+	N/A	N/A	Positive 1+ to 3+	

All laboratories and results were classified as Result Satisfactory (✓) for this test.

SECTION 8: Serum Agglutination Test (SAT)

Brucella abortus (BB) SAT

Report Date	15/06/2022
Report Status	Final Retest Report
Test Name	B. abortus SAT
Test Number (Code)	21/31
Test Month and Year	October 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	1072.00	Neg <17	1280.00	1280.00	Neg <17	93.00	✓
	438.00	Neg < 12 IU	875.00	875.00	Neg <12 IU	54.00	✓
	414.00	Neg 11 IU/mL	985.00	828.00	Neg 11 IU/mL	52.00	✓
	1280.00	Neg	1072.00	1280.00	Neg	134.00	Samples 1 & 6 - R Samples 2, 3, 4 & 5 - ✓
	560.00	Neg	640.00	640.00	Neg	30.00	✓
							See comment
Median	Positive 560.00 IU/mL	Negative	Positive 985.00 IU/mL	Positive 875.00 IU/mL	Negative	Positive 54.00 IU/mL	
Acceptable Variation Range	Positive 280.00 to 1120.00 IU/mL	N/A	Positive 492.50 to 1970.00 IU/mL	Positive 437.50 to 1750.00 IU/mL	N/A	Positive 27.00 to 108.00 IU/mL	
Laboratory Number	Retest Results						Classification
	640.00	-	-	-	-	160.00	Sample 1 - R✓ Sample 6 - Rm

Comment: One laboratory did not report results by due date.
One laboratory was classified as Retest Result Demonstrating Minor Variation (Rm) for Sample 6.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

SECTION 9: Virus Isolation (VI)

Bovine viral diarrhoea virus (BVDV) Isolation

Report Date	29/11/2021
Report Status	Final Report
Test Name	BVDV Isolation
Test Number (Code)	21/20
Test Month and Year	August 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Pos	Neg	Pos	Pos	Pos	Neg	✓
	Pos	Neg	Pos	Pos	Pos	Neg	✓
	Pos	Neg	Pos	Pos	Pos	Neg	✓
	Pos	Neg	Pos	Pos	Pos	Neg	✓
	Pos	Neg	Pos	Pos	Pos	Neg	✓
							See comment
	Pos	Neg	Pos	Pos	Pos	Neg	✓
Consensus Interpretation	Positive	Negative	Positive	Positive	Positive	Negative	

Comment: One laboratory did not report results by due date.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

SECTION 10: Virus Neutralisation Test (VNT)

Aino VNT

Akabane VNT

Bluetongue virus serotype 1 (BTV-1) VNT

Bovine ephemeral fever (BEF) VNT

Bovine viral diarrhoea virus (BVDV) VNT

Equine viral arteritis (EVA) VNT

Infectious bovine rhinotracheitis (IBR) VNT

Report Date	07/09/2021
Report Status	Final Retest Report
Test Name	Aino VNT
Test Number (Code)	21/01
Test Month and Year	May 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Neg	40.00	20.00	40.00	40.00	Neg	✓
	Neg <4	16.00	32.00	32.00	32.00	Neg <4	Sample 2 - R Samples 1, 3, 4, 5 & 6 - ✓
	Neg <2	29.00	36.00	36.00	29.00	Neg <2	✓
							See comment
	Neg @ 1:10	80.00	80.00	40.00	160.00	Neg @ 1:10	Samples 2, 3 & 5 - R Samples 1, 4 & 6 - ✓
Median	Negative	Positive 1/34.06	Positive 1/33.94	Positive 1/37.95	Positive 1/35.78	Negative	
Acceptable Variation Range	N/A	Positive 1/17.03 - 1/68.12	Positive 1/16.97 - 1/67.88	Positive 1/18.98 - 1/75.90	Positive 1/17.89 - 1/71.56	N/A	
Laboratory Number	Retest Results						Classification
	-	96.00	-	-	-	-	Sample 2 - Rm
	-	40.00	40.00	-	40.00	-	Samples 2, 3 & 5 - R ✓

Comment: One laboratory did not report results by due date.
One laboratory was classified as Retest Result Demonstrating Minor Variation (Rm) for Sample 2.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	28/01/2022
Report Status	Final Retest Report
Test Name	Akabane VNT
Test Number (Code)	21/13
Test Month and Year	July 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Neg	16.00	16.00	8.00	8.00	Neg	Samples 2, 3, 4 & 5 - R Samples 1 & 6 - ✓
	Neg <4	64.00	16.00	64.00	32.00	Neg <4	Sample 3 - R Samples 1, 2, 4, 5 & 6 - ✓
	Neg <2	11.00	6.00	11.00	23.00	Neg <2	Samples 2, 3, 4 & 5 - R Samples 1 & 6 - ✓
	Neg <4	96.00	80.00	72.00	96.00	Neg <4	Sample 3 - R Samples 1, 2, 4, 5 & 6 - ✓
	Neg @ 1:4	150.00	90.00	89.00	75.00	Neg @ 1:4	Sample 3 - R Samples 1, 2, 4, 5 & 6 - ✓
	Neg @ 1:4	128.00	128.00	256.00	256.00	Neg @ 1:4	Samples 3, 4 & 5 - R Samples 1, 2 & 6 - ✓
Median	Negative	Positive 1/78.38	Positive 1/35.78	Positive 1/67.88	Positive 1/48.99	Negative	
Acceptable Variation Range	N/A	Positive 1/39.19 to 1/156.77	Positive 1/17.89 to 1/71.55	Positive 1/33.94 to 1/135.76	Positive 1/24.49 to 1/97.98	N/A	
Laboratory Number	Retest Results						Classification
	-	64.00	64.00	16.00	16.00	-	Samples 2 & 3 - R ✓ Sample 4 - RU Sample 5 - Rm
	-	-	8.00	-	-	-	Sample 3 - RU
	-	72.00	144.00	91.00	144.00	-	Samples 2 & 4 - R ✓ Sample 3 - RU Sample 5 - Rm
	-	-	64.00	-	-	-	Sample 3 - R ✓
	-	-	45.00	-	-	-	Sample 3 - R ✓
	-	-				-	See comment

Comment: One laboratory did not report retest results by due date.
One laboratory was classified as Retest Result Unacceptable (RU) for Sample 4 and Retest Result Demonstrating Minor Variation (Rm) for Sample 5.
One laboratory was classified as Retest Result Unacceptable (RU) for Sample 3.
One laboratory was classified as Retest Result Unacceptable (RU) for Sample 3 and Retest Result Demonstrating Minor Variation (Rm) for Sample 5.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	07/09/2021
Report Status	Final Retest Report
Test Name	BTV-1 VNT
Test Number (Code)	21/03
Test Month and Year	May 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
							See comment
	40.00	Neg <10	Neg <10	40.00	20.00	40.00	✓
	64.00	Neg <4	Neg <4	64.00	36.00	64.00	✓
	640.00	Neg	Neg	160.00	320.00	160.00	Samples 1, 4, 5 & 6 - R Samples 2 & 3 - ✓
Median	Positive 1/64.00	Negative	Negative	Positive 1/64.00	Positive 1/36.00	Positive 1/64.00	
Acceptable Variation Range	Positive 1/32.00 - 1/128.00	N/A	N/A	Positive 1/32.00 - 1/128.00	Positive 1/18.00 - 1/72.00	Positive 1/32.00 - 1/128.00	
Laboratory Number	Retest Results						Classification
	80.00	-	-	40.00	80.00	40.00	Samples 1, 4 & 6 - R ✓ Sample 5 - Rm

Comment: One laboratory did not report results by due date.
One laboratory was classified as Retest Result Demonstrating Minor Variation (Rm) for Sample 5.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	28/01/2022
Report Status	Final Retest Report
Test Name	BEF VNT
Test Number (Code)	21/12
Test Month and Year	July 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	20.00	160.00	40.00	Neg	Neg	20.00	✓
	32.00	64.00	128.00	Neg <4	Neg <4	32.00	✓
	23.00	91.00	91.00	Neg <2	Neg <2	23.00	✓
	32.00	192.00	64.00	Neg <4	Neg <4	64.00	Sample 6 - R Samples 1, 2, 3, 4 & 5 - ✓
	22.00	32.00	26.00	Neg @ 1:4	Neg @ 1:4	18.00	Samples 2 & 3 - R Samples 1, 4, 5 & 6 - ✓
	32.00	256.00	256.00	128.00	Neg @ 1:4	Neg @ 1:4	Samples 2, 3, 4 & 6 - R Samples 1 & 5 - ✓
Median	Positive 1/27.13	Positive 1/120.66	Positive 1/76.32	Negative	Negative	Positive 1/23.00	
Acceptable Variation Range	Positive 1/13.57 to 1/54.26	Positive 1/60.33 to 1/241.32	Positive 1/38.16 to 1/152.64	N/A	N/A	Positive 1/11.50 to 1/46.00	
Laboratory Number	Retest Results						Classification
	-	-	-	-	-	40.00	Sample 6 - R ✓
	-	128.00	71.00	-	-	-	Samples 2 & 3 - R ✓
	-				-		See comment

Comment: One laboratory did not report retest results by due date.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	08/06/2022
Report Status	Final Retest Report
Test Name	BVDV VNT
Test Number (Code)	21/26
Test Month and Year	September 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	256.00	1024.00	Neg	Neg	1024.00	64.00	Samples 1 & 2 - R Samples 3, 4, 5 & 6 - ✓
	1024.00	1024.00	Neg <4	Neg <4	1024.00	128.00	Samples 1, 3, 4, 5 & 6 - ✓ Sample 2 - R
	256.00	4096.00	Neg <1/2	Neg <1/2	4096.00	64.00	Samples 1 & 5 - R Samples 2, 3, 4 & 6 - ✓
	512.00	4096.00	Neg <4	Neg <4	5793.00	256.00	Samples 1, 2, 3 & 4 - ✓ Samples 5 & 6 - R
	1448.00	4096.00	Neg @ 1/4	Neg @ 1/4	3444.00	106.00	✓
	2048.00	Neg 1/4	2048.00	Neg 1/4	256.00	256.00	Samples 1, 2, 3, 5 & 6 - R Sample 4 - ✓
Median	Positive 1/724.08	Positive 1/4096.00	Negative	Negative	Positive 1/1877.94	Positive 1/116.48	
Acceptable Variation Range	Positive 1/362.04 to 1/1448.15	Positive 1/2048.00 to 1/8192.00	N/A	N/A	Positive 1/938.97 to 1/3755.88	Positive 1/58.24 to 1/232.96	
Laboratory Number	Retest Results						Classification
	512.00	4096.00	-	-	-	-	Samples 1 & 2 - R ✓
	-	1024.00	-	-	-	-	Sample 2 - Rm
	384.00	-	-	-	2048.00	-	Samples 1 & 5 - R ✓
	-	-	-	-	2896.00	64.00	Samples 5 & 6 - R ✓
							See comment

Comment: One laboratory did not report retest results by due date.
One laboratory was classified as Retest Result Demonstrating Minor Variation (Rm) for Sample 2.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	26/05/2022
Report Status	Final Report
Test Name	EVA VNT
Test Number (Code)	21/37
Test Month and Year	November 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Neg	64.00	256.00	Neg	512.00	512.00	Samples 1, 2, 4 & 6 - ✓ Samples 3 & 5 - MV
	Neg <1/2	256.00	192.00	Neg <1/2	384.00	384.00	Samples 1, 3, 4 & 6 - ✓ Samples 2 & 5 - MV
	Neg <2	114.00	72.00	Neg <2	144.00	287.00	✓
	Neg @ 1/4	32.00	128.00	Neg @ 1/4	64.00	64.00	Samples 1, 3 & 4 - ✓ Samples 2 & 5 - MV Sample 6 - U
	Neg @ 1/4	106.00	125.00	Neg @ 1/4	181.00	301.00	✓
	Neg @ 1/4	16.00	8.00	Neg @ 1/4	64.00	128.00	Samples 1 & 4 - ✓ Samples 2 & 3 - U Samples 5 & 6 - MV
Median	Negative	Positive 1/82.37	Positive 1/126.49	Negative	Positive 1/161.44	Positive 1/293.92	
Acceptable Variation Range	N/A	Positive 1/41.18 to 1/164.73	Positive 1/63.25 to 1/252.98	N/A	Positive 1/80.72 to 1/322.89	Positive 1/146.96 to 1/587.83	

One laboratory was classified as Result Demonstrating Minor Variation (MV) for Samples 3 & 5.
 One laboratory was classified as Result Demonstrating Minor Variation (MV) for Samples 2 & 5.
 One laboratory was classified as Result Demonstrating Minor Variation (MV) for Samples 2 & 5 and Result Unacceptable (U) for Sample 6.
 One laboratory was classified as Result Unacceptable (U) for Samples 2 & 3 and Result Demonstrating Minor Variation (MV) for Samples 5 & 6.
 All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	19/11/2021
Report Status	Final Retest Report
Test Name	IBR VNT
Test Number (Code)	21/09
Test Month and Year	June 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
							See comment
	Neg <4	128.00	256.00	128.00	256.00	Neg <4	✓
	Neg <1	256.00	384.00	256.00	512.00	Neg <1	Samples 4 & 5 - R Samples 1, 2, 3 & 6 - ✓
	Neg <2	181.00	181.00	91.00	181.00	Neg <2	✓
	Neg <1	12.00	24.00	24.00	32.00	Neg <1	Samples 2, 3, 4 & 5 - R Samples 1 & 6 - ✓
	Neg < 1:8	16.00	32.00	16.00	32.00	Neg < 1:8	Samples 2, 3, 4 & 5 - R Samples 1 & 6 - ✓
	Neg @ 1:2	178.00	301.00	213.00	355.00	Neg @ 1:2	✓
							See comment
Median	Negative	Positive 1/150.94	Positive 1/215.26	Positive 1/107.93	Positive 1/215.26	Negative	
Acceptable Variation Range	N/A	Positive 1/75.47 to 1/301.88	Positive 1/107.63 to 1/430.52	Positive 1/53.97 to 1/215.86	Positive 1/107.63 to 1/430.52	N/A	
Laboratory Number	Retest Results						Classification
	-	-	-	128.00	384.00	-	Samples 4 & 5 - R ✓
	-					-	See comment
	-	256.00	512.00	256.00	1024.00	-	Sample 2 - R ✓ Sample 3 & 4 - Rm Sample 5 - RU

Comment: Two laboratories did not report results by due date. One laboratory did not report retest results by due date. One laboratory was classified as Retest Result Demonstrating Minor Variation (Rm) for Samples 3 & 4 and Retest Result Unacceptable (RU) for Sample 5. All other laboratories and results were classified as Result Satisfactory (✓) for this test.

SECTION 11: Culture and Identification of *Mycobacterium paratuberculosis*

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Report Date	16/09/2022
Report Status	Final Report
Test Name	JD Bovine Culture
Test Number	21/32
Test Month and Year	October 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Neg	Pos	Pos	Pos	Neg	Pos	✓
	Neg	Pos	Pos	Pos	Neg	Pos	✓
	Neg	Pos	Pos	Pos	Neg	Neg	Samples 1-5 - ✓ Sample 6 - U
	Neg	Pos	Pos	Pos	Neg	Pos	✓
	Neg	Pos	Pos	Pos	Neg	Pos	✓
	Neg	Pos	Pos	Pos	Neg	Pos	✓
Consensus Interpretation	Negative	Positive	Positive	Positive	Negative	Positive	

One laboratory was classified as Result Unacceptable (U) for Sample 6.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

Report Date	16/09/2022
Report Status	Final Report
Test Name	JD Ovine Culture
Test Number	21/33
Test Month and Year	October 2021

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Pos	Neg	Pos	Pos	Pos	Neg	✓
	Pos	Neg	Pos	Pos	Pos	Neg	✓
	Pos	Neg	Pos	Pos	Pos	Neg	✓
	Pos	Neg	Pos	Pos	Pos	Neg	✓
	Pos	Pos	Neg	Pos	Pos	Neg	Samples 1, 4, 5 and 6 - ✓ Samples 2 & 3 - U
	Pos	Neg	Pos	Pos	Pos	Neg	✓
Consensus Interpretation	Positive	Negative	Positive	Positive	Positive	Negative	

One laboratory was classified as Result Unacceptable (U) for Samples 2 & 3.
All other laboratories and results were classified as Result Satisfactory (✓) for this test.

ANQAP treats all information provided by participants in confidence.

No laboratory or organization can use this report or information contained within the report without prior written consent from ANQAP.

ANQAP recommends that laboratories given a classification of Unacceptable undertake corrective action within the laboratory to identify and rectify problems with the test.

ANQAP actively seeks and welcomes your feedback.

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End of Report