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Interlaboratory Veterinary Proficiency Testing

2018 Annual Report

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SECTION 1: Introduction

Introduction

Confidentiality

Methodology

1. INTRODUCTION

In 2018 the Australian National Quality Assurance Program (ANQAP) facilitated inter-laboratory proficiency testing in 33 government and private veterinary laboratories from several countries including Australia, New Zealand, the United States of America, Hong Kong, New Caledonia and South Africa. The testing cycle for 2018 evaluated 8 testing rounds, comprised of 37 different veterinary tests.

Australian National Reference Laboratories provide proficiency testing for *Dichelobacter nodosus* and *Mycobacterium paratuberculosis*. Results for each of these proficiency tests are included as separate sections within the ANQAP report.

2. CONFIDENTIALITY

In order to protect the identity of participating laboratories, each laboratory is allocated a confidential code number. Each laboratory knows only its own code number and not the code numbers of other laboratories. This number is changed annually. ANQAP changed its policy in 2018, no longer issuing reports with confidential laboratory numbers, in order to further maintain client confidentiality.

A special round for the BTV ELISA is run as part of the Laboratories for Emergency Animal Disease Diagnosis and Response (LEADDR) program and the participating laboratories are assigned an alphabetic code for these tests. As LEADDR does not keep laboratories confidential, the alphabetic code cannot be converted to the standard numeric code without a potential breach of confidentiality.

3. METHODOLOGY

3.1 Samples

ANQAP distributes freeze dried samples (most commonly serum) to participating laboratories. Each panel of samples is, where possible, selected to give a range of results from negative through to high positive. Each panel includes six samples with the same panel distributed to all laboratories participating in that assay.

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 are within one dilution 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 4/64 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 recommend 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.

Statistical Analysis of Results

A number of tests within the ANQAP program are suitable for statistical analysis of the results. For these tests a split-level analysis is undertaken using two test sera from the panel. The outcomes of these statistical analyses are sent to participating laboratories with the table of results. The statistics are not included in this report.

Reporting

Individual laboratory report

ANQAP will issue each individual laboratory a personalised report once they have submitted their results. The report will identify results that are within acceptable parameters and indicate where sample retests will be required.

Note: After the commencement of the 2018 Proficiency Testing Scheme, the L. Hardjo MAT panel was cancelled and was not offered in 2018 due to insufficient serum stock availability. JD Caprine AGID and L. Pomona MAT panels were not offered in 2018 for the same reason.

SECTION 2: Agar Gel Immunodiffusion (AGID)

Avian Influenza (AIV) AGID

Bluetongue (BT) 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	15/05/2018
Report Status	Final Retest Report
Test Name	AIV AGID
Test Number (Code)	18/05
Test Month and Year	February 2018

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

Note: One laboratory was classified on interpretation only.

One laboratory was classified as Retest Result Satisfactory (R✓) for Sample 6.

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

Report Date	17/09/2018
Report Status	Final Report
Test Name	BT AGID
Test Number (Code)	18/40
Test Month and Year	August 2018

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

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

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

Report Date	11/07/2018
Report Status	Final Retest Report
Test Name	BVDV AGID
Test Number (Code)	18/17
Test Month and Year	April 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Pos 2+	Pos 2+	Neg	Pos 1+	Neg	Pos 2+	✓
	Pos 2+	Pos 2+	Neg	Pos 2+	Neg	Pos 2+	✓
	Pos 3+	Pos 3+	Neg	Pos 2+	Neg	Pos 2+	✓
	Pos 1+	Pos 2+	Neg	Neg	Neg	Pos 1+	Samples 1, 2, 3, 5 & 6 - ✓ Sample 4 - R
	Pos 1+	Pos 2+	Neg	Neg	Neg	Pos 2+	Samples 1, 2, 3, 5 & 6 - ✓ Sample 4 - R
	Pos 1+	Pos 3+	Neg	Pos 1+	Neg	Pos 3+	✓
	Pos 2+	Pos 2+	Neg	Pos 1+	Neg	Pos 2+	✓
Consensus Interpretation	Positive 2+	Positive 2+	Negative	Positive 1+	Negative	Positive 2+	
Acceptable Variation Range	Positive 1+ - 3+	Positive 1+ - 3+	N/A	Positive 1+ - 2+	N/A	Positive 1+ - 3+	
Retest Results							Classification
	-	-	-	Pos 1+	-	-	R✓

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

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

Report Date	11/07/2018
Report Status	Final Retest Report
Test Name	EHD AGID
Test Number (Code)	18/13
Test Month and Year	April 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Pos 2+	Neg	Pos 1+	Neg	Pos 3+	Pos 3+	✓
	Pos 3+	Neg	Pos 2+	Neg	Pos 3+	Pos 3+	✓
	Lab did not report EHD AGID results.						See comment
	Pos >3+	Neg	Pos 1+	Neg	Pos 3+	Pos >3+	Sample 1 - R Samples 2-6 - ✓
	Pos 2+	Neg	Pos 2+	Neg	Pos 2+	Pos 2+	✓
	Pos 2+	Neg	Pos 1+	Neg	Pos 2+	Pos 3+	✓
	Pos	Neg	Pos	Neg	Pos	Pos	✓ - Classified on interpretation only
Consensus Interpretation	Positive 2+	Negative	Positive 1+	Negative	Positive 2+ - 3+	Positive 3+	
Acceptable Variation Range	Positive 1+ - 3+	N/A	Positive 1+ - 2+	N/A	Positive 1+ - >3+	Positive 2+ - >3+	
Retest Results							Classification
	Pos 2+	-	-	-	-	-	R ✓

Comment: One Laboratory did not report EHD AGID results.

One laboratory was classified as Retest Result Satisfactory (R✓) for Sample 1.

One laboratory was classified on interpretation only.

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

Report Date	15/05/2018
Report Status	Final Retest Report
Test Name	EIA AGID
Test Number (Code)	18/01
Test Month and Year	February 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Neg	Pos 2+	Pos 2+	Pos 2+	Pos 2+	Neg	✓
	Neg	Neg	Pos 1+	Pos 1+	Pos 3+	Neg	R
	Neg	Pos 1+	Pos 1+	Pos 1+	Pos 2+	Neg	✓
	Neg	Pos 2+	Pos 2+	Pos 2+	Pos 3+	Neg	✓
	Neg	Pos 1+	Pos 1+	Pos 2+	Pos 2+	Neg	✓
	Neg	Pos	Pos	Pos	Pos	Neg	✓ - Classified on interpretation only
	Neg	Pos 2+	Pos 1+	Pos 3+	Pos 2+	Neg	✓
	Neg	Pos 2+	Pos 2+	Pos 2+	Pos 2+	Neg	✓
	Neg	Pos 1+	Pos 1+	Pos 1+	Pos 2+	Neg	✓
	Neg	Pos 1+	Pos 2+	Pos 2+	Pos 2+	Neg	✓
	Neg	Pos	Pos	Pos	Pos	Neg	✓ - Classified on interpretation only
Consensus Interpretation	Negative	Positive	Positive	Positive	Positive	Negative	
Acceptable Variation Range	N/A	Positive 1+ - 3+	Positive 1+ - 2+	Positive 1+ - 3+	Positive 1+ - 3+	N/A	
Retest Results							Classification
	-	Pos 1+	-	-	-	-	R✓

One laboratory was classified as Retest Result Satisfactory (R✓) for Sample 2.

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

Note: Two laboratories were classified on interpretation only.

Report Date	17/04/2018
Report Status	Final Report
Test Name	JD Ovine AGID
Test Number (Code)	18/10
Test Month and Year	March 2018

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

Note: Due to low serum stock availability, retests or replacement samples were not available for this test round.

One laboratory was classified as Result Unacceptable (U) for Sample 6, based on interpretation only.

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

Note: Two laboratories were classified on interpretation only.

SECTION 3: Complement Fixation Test

Brucella abortus (BB) CFT

Brucella ovis (OB) CFT

Johne's disease (JD) CFT

Q Fever (QF) CFT

Report Date	11/07/2018
Report Status	Final Retest Report
Test Name	B. abortus CFT
Test Number (Code)	18/14
Test Month and Year	April 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	4/32	2/64	Neg	4/32	Neg	2/64	Samples 1, 3, 4 & 5 - ✓ Samples 2 & 6 - R
	3/64	1/16	Neg <1/4	3/128	Neg <1/4	3/16	✓
	4/64	1/64	0/2 Neg	4/64	0/2 Neg	1/64	Samples 1, 3, 4 & 5 - ✓ Samples 2 & 6 - R
	3/64	3/16	Neg	3/128	Neg	3/16	✓
	2/64	3/32	Neg <4	4/64	Neg <4	3/32	✓
	3/32	3/16	Neg 1/4	4/32	Neg 1/4	2/16	✓
	4/32	3/16	Lab did not report a result due to sample issue	2/64	Lab did not report a result due to sample issue	2/16	Samples 1, 2, 4 & 6 - ✓ Samples 3 & 5 - R
	1/64	1/32	Neg <8	4/64	Neg <8	2/16	✓
	2/32	2/16	Neg	2/64	Neg	2/16	✓
	1/256	1/512	0/4 Neg	4/64	0/4 Neg	1/256	Samples 3, 4 & 5 - ✓ Samples 1, 2 & 6 - R
Median	2/64	4/16	Negative	4/64	Negative	3/16	
Acceptable Variation Range	Positive 2/32 - 2/128	Positive 4/8 - 4/32	N/A	Positive 4/32 - 4/128	N/A	Positive 3/8 - 3/32	
Retest Results							Classification
	-	-	Neg	-	Neg	-	R✓
	-	2/32	-	-	-	2/32	R✓
	4/64	3/16	-	-	-	3/16	R✓
	-	1/256	-	-	-	3/256	RU

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

One laboratory was classified as Retest Result Satisfactory (R✓) for Samples 2 and 6.

One laboratory was classified as Retest Result Satisfactory (R✓) for Samples 1, 2 and 6.

One laboratory was classified as Retest Result Unacceptable (RU) for Samples 2 and 6.

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

Report Date	17/04/2018
Report Status	Final Report
Test Name	B. ovis CFT
Test Number (Code)	18/08
Test Month and Year	March 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	4/64	Neg	1/32	1/32	Neg	Neg	✓
	3/256	0/4 Neg	4/64	1/32	0/4 Neg	0/4 Neg	2, 4-6 - ✓ 1 & 3 - M
	4/128	Neg	1/64	2/128	Neg	Neg	1-3, 5-6 - ✓ 4 - U
	64	Neg <8	16	16	Neg <8	Neg <8	2, 4-6 - ✓ 1 & 3 - M
	2/256	Neg <8	4/32	4/32	Neg <8	Neg <8	✓
	3/64	Neg <8	2/16	2/16	Neg <8	Neg <8	✓
	1/128	Neg	1/16	1/16	Neg	Neg	1-2, 4-6 - ✓ 3 - M
	2/128	Neg <8	2/32	2/32	Neg <8	Neg <8	✓
	4/64	Neg	2/32	2/32	Neg	Neg	✓
	4/64	0/8 Neg	4/16	4/16	0/8 Neg	0/8 Neg	✓
	4/128	Neg	2/64	4/32	Neg	Neg	✓
	3/128	Neg <1/4	1/32	3/16	Neg <1/4	Neg <1/4	✓
Median	Positive 2/128	Negative	Positive 2/32	Positive 1/32	Negative	Negative	
Acceptable Variation Range	Positive 2/64 - 2/256	N/A	Positive 2/16 - 2/64	Positive 1/16 - 1/64	N/A	N/A	

Note: Due to low serum stock availability, retests or replacement samples were not available for this test round.

Two laboratories were classified as demonstrating Minor Variation (M) for Samples 1 and 3.

One laboratory was classified as demonstrating Minor Variation (M) for Sample 3.

One laboratory was classified as Unacceptable (U) for Sample 4.

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

Report Date	11/07/2018
Report Status	Final Retest Report
Test Name	JD CFT
Test Number (Code)	18/16
Test Month and Year	April 2018

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

One laboratory was classified as Retest Result Satisfactory (R✓) for Sample 1.

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

Report Date	14/01/2019
Report Status	Final RETEST Report
Test Name	QF CFT
Test Number (Code)	18/34
Test Month and Year	July 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Neg	Pos 2/64	Pos 2/64	Neg	Pos 4/32	Pos 4/32	✓
	Neg 1/16	Anticomplementary-Ininterpretable	Anticomplementary-Ininterpretable	Neg 1/16	Pos 3/128	Pos 3/128	Samples 1, 4-6 - ✓ Samples 2 & 3 - R
	See Comment 1						
	See Comment 1						
	Neg	Pos 4/32	Pos 4/32	Neg	Pos 4/64	Pos 4/64	✓
Median	Negative	Positive 1/64	Positive 1/64	Negative	Positive 4/64	Positive 4/64	
Acceptable Variation Range	N/A	Positive 1/32 - 1/128	Positive 1/32 - 1/128	N/A	Positive 4/32 - 4/128	Positive 4/32 - 4/128	
Retest Results							Classification
	See Comment 2						

Comment 1: Two Laboratories did not report before Result Due Date.

Comment 2: One Laboratory did not report retest results before Result Due Date.

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

SECTION 4: Enzyme Linked Immunosorbent Assay (ELISA)

Akabane ELISA

Bluetongue (BT) ELISA

Bovine viral diarrhoea (BVD) Antibody ELISA

Bovine viral diarrhoea (BVD) Antigen ELISA clot

Bovine viral diarrhoea (BVD) Antigen ELISA ear notch

Bovine viral diarrhoea (BVD) Antigen ELISA serum

Brucella abortus (BB) ELISA

Brucella ovis (OB) ELISA

Caprine arthritis/encephalitis (CAE) ELISA

Enzootic bovine leucosis (EBL) ELISA milk

Infectious bovine rhinotracheitis (IBR) ELISA

Johne's disease – bovine (JD) ELISA

Report Date	17/09/2018
Report Status	Final Report
Test Name	Akabane ELISA
Test Number (Code)	18/39
Test Month and Year	August 2018

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	See comment												See comment
	0.99	Neg	0.35	Pos	0.93	Neg	0.15	Pos	0.11	Pos	0.12	Pos	✓
	0.76	Neg	0.07	Pos	0.77	Neg	0.07	Pos	0.07	Pos	0.08	Pos	✓
	1.46	Neg	0.19	Pos	1.46	Neg	0.18	Pos	0.19	Pos	0.22	Pos	✓
	0.69	Neg	0.07	Pos	0.65	Neg	0.07	Pos	0.08	Pos	0.07	Pos	✓
	See comment												See comment
	1.22	Neg	0.15	Pos	1.26	Neg	0.17	Pos	0.18	Pos	0.16	Pos	✓
	See comment												See comment
Consensus Interpretation	Negative		Positive		Negative		Positive		Positive		Positive		

Comment: Three laboratories did not report results by due date.

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

Report Date	15/05/2018
Report Status	Final Report
Test Name	BTV ELISA
Test Number (Code)	18/15
Test Month and Year	April 2018

Laboratory Code	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	0.03	Pos	0.04	Pos	0.15	Pos	0.93	Neg	0.08	Pos	0.99	Neg	✓
	0.21	Pos	0.16	Pos	0.35	Pos	1.04	Neg	0.25	Pos	0.93	Neg	✓
	0.08	Pos	0.08	Pos	0.44	Weak Pos	1.53	Neg	0.37	Pos	1.58	Neg	✓
	0.16	Pos	0.16	Pos	0.18	Pos	1.15	Neg	0.22	Pos	1.08	Neg	✓
	0.29	Pos	0.28	Pos	0.62	Pos	1.40	Neg	0.48	Pos	1.36	Neg	✓
	0.07	Pos	0.08	Pos	0.21	Pos	1.69	Neg	0.08	Pos	1.60	Neg	✓
	0.08	Pos	0.07	Pos	0.24	Pos	1.44	Neg	0.08	Pos	1.41	Neg	✓
	0.07	Pos	0.07	Pos	0.14	Pos	1.03	Neg	0.07	Pos	1.09	Neg	✓
	N/A	Pos	N/A	Pos	N/A	Pos	N/A	Neg	N/A	Pos	N/A	Neg	✓
	0.30	Pos	0.31	Pos	0.74	Pos	1.39	Neg	0.43	Pos	1.66	Neg	✓
	0.22	Pos	0.22	Pos	0.22	Pos	0.80	Neg	0.21	Pos	0.80	Neg	✓
	0.06	Pos	0.07	Pos	0.18	Pos	1.35	Neg	0.07	Pos	1.40	Neg	✓
	0.33	Pos	0.31	Pos	0.67	Pos	1.33	Neg	0.41	Pos	1.29	Neg	✓
	See comment												See comment
Consensus Interpretation	Positive		Positive		Positive		Negative		Positive		Negative		

Comment: One laboratory did not report any results.

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

Report Date	23/10/2018
Report Status	Final Report *Amended
Test Name	BVDV Antibody ELISA
Test Number (Code)	18/38
Test Month and Year	August 2018

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	See comment												See comment
	1.93	Pos	1.44	Pos	0.07	Neg	1.31	Pos	0.07	Neg	1.33	Pos	✓
	0.07	Pos	0.06	Pos	1.57	Neg	0.06	Pos	1.52	Neg	0.07	Pos	✓
	0.11	Pos	0.09	Pos	1.43	Neg	0.10	Pos	1.48	Neg	0.10	Pos	✓
	1.66	Pos	1.23	Pos	0.06	Neg	1.15	Pos	0.05	Neg	1.12	Pos	✓
	0.07	Pos	0.06	Pos	1.17	Neg	0.08	Pos	1.16	Neg	0.11	Pos	✓
	See comment												See comment
	1.33	Pos	1.04	Pos	0.05	Neg	1.03	Pos	0.05	Neg	1.04	Pos	✓
	0.04	Pos	0.03	Pos	1.30	Neg	0.05	Pos	1.31	Neg	0.05	Pos	✓
	0.82	Pos	0.68	Pos	0.02	Neg	0.51	Pos	0.03	Neg	0.62	Pos	✓
	See comment												See comment
	0.03	Pos	0.03	Pos	1.02	Neg	0.04	Pos	1.03	Neg	0.04	Pos	✓
	0.09	Pos	0.07	Pos	1.26	Neg	0.08	Pos	1.19	Neg	0.08	Pos	✓
Consensus Interpretation	Positive		Positive		Negative		Positive		Negative		Positive		

Comment: Three laboratories did not report results by due date.

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

Report Date	24/09/2018
Report Status	Final Retest Report
Test Name	BVDV Antigen ELISA - Clot
Test Number (Code)	18/26
Test Month and Year	June 2018

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	See comment												See comment
	1.27	Pos	0.07	Neg	0.08	Neg	2.12	Pos	1.18	Pos	2.44	Pos	✓
	1.51	Pos	0.00	Neg	0.02	Neg	2.38	Pos	1.65	Pos	2.50	Pos	✓
	3.06	Pos	0.09	Neg	0.14	Neg	2.86	Pos	2.35	Pos	2.94	Pos	✓
	2.58	Pos	0.12	Neg	0.17	Neg	2.94	Pos	2.13	Pos	2.96	Pos	✓
	0.94	Pos	0.11	Neg	0.12	Neg	0.74	Pos	0.48	Neg	0.83	Pos	Samples 1-4, 6 - ✓ Sample 5 - R
	See comment												See comment
	1.25	Pos	0.84	Neg	0.21	Neg	1.24	Pos	0.20	Neg	0.90	Pos	Samples 1-4, 6 - ✓ Sample 5 - R
Consensus Interpretation	Positive		Negative		Negative		Positive		Positive		Positive		
Retest Results													Classification
	-		-		-		-		0.87	Pos	-		Sample 5 - R✓
	-		-		-		-		0.264	Neg	-		Sample 5 - RU

Comment: Two laboratories did not report any results.

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

One laboratory was classified as Retest Result Unacceptable (RU) for Sample 5.

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

Report Date	31/07/2018
Report Status	Final Report
Test Name	BVDV Antigen ELISA – Ear Notch
Test Number (Code)	18/27
Test Month and Year	June 2018

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	0.13	Neg	3.36	Pos	2.72	Pos	2.28	Pos	3.46	Pos	0.19	Neg	✓
	0.13	Neg	3.24	Pos	2.66	Pos	2.55	Pos	3.39	Pos	0.13	Neg	✓
	0.05	Neg	3.10	Pos	2.33	Pos	1.82	Pos	3.10	Pos	0.04	Neg	✓
	0.12	Neg	2.77	Pos	2.17	Pos	1.76	Pos	2.97	Pos	0.10	Neg	✓
	0.30	Neg	3.18	Pos	2.51	Pos	2.13	Pos	3.25	Pos	0.31	Neg	✓
	0.09	Neg	2.60	Pos	2.20	Pos	1.80	Pos	2.52	Pos	0.09	Neg	✓
	0.11	Neg	1.75	Pos	1.25	Pos	1.08	Pos	1.77	Pos	0.12	Neg	✓
	0.12	Neg	2.61	Pos	1.95	Pos	1.91	Pos	2.63	Pos	0.12	Neg	✓
	0.06	Neg	2.38	Pos	1.73	Pos	1.54	Pos	2.27	Pos	0.08	Neg	✓
	0.05	Neg	2.41	Pos	1.56	Pos	1.20	Pos	2.20	Pos	0.19	Neg	✓
	0.09	Neg	2.19	Pos	1.70	Pos	1.27	Pos	2.16	Pos	0.12	Neg	✓
Consensus Interpretation	Negative		Positive		Positive		Positive		Positive		Negative		

Comment: All laboratories were classified as Result Satisfactory (✓) for this test.

Report Date	31/07/2018
Report Status	Final Report
Test Name	BVDV Antigen ELISA - Serum
Test Number (Code)	18/25
Test Month and Year	June 2018

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	2.93	Pos	3.50	Pos	0.09	Neg	3.09	Pos	0.10	Neg	3.50	Pos	✓
	2.79	Pos	3.82	Pos	0.08	Neg	2.58	Pos	0.08	Neg	3.81	Pos	✓
	2.71	Pos	3.90	Pos	0.09	Neg	2.84	Pos	0.07	Neg	3.68	Pos	✓
	2.56	High Pos	3.43	High Pos	0.13	Neg	2.56	High Pos	0.11	Neg	2.97	High Pos	✓
	2.38	Pos	3.59	Pos	0.09	Neg	2.28	Pos	0.09	Neg	3.47	Pos	✓
	2.79	Pos	3.74	Pos	0.00	Neg	2.64	Pos	0.01	Neg	3.58	Pos	✓
	3.44	Pos	4.28	Pos	0.11	Neg	3.53	Pos	0.10	Neg	4.35	Pos	✓
	2.88	Pos	3.10	Pos	0.08	Neg	2.47	Pos	0.08	Neg	3.05	Pos	✓
	3.55	Pos	4.15	Pos	0.12	Neg	3.54	Pos	0.11	Neg	4.06	Pos	✓
	2.59	Pos	2.89	Pos	0.07	Neg	2.55	Pos	0.07	Neg	2.99	Pos	✓
	2.25	Pos	2.84	Pos	0.07	Neg	2.19	Pos	0.07	Neg	2.56	Pos	✓
	2.51	Pos	3.48	Pos	0.07	Neg	2.57	Pos	0.07	Neg	3.50	Pos	✓
	2.09	Pos	3.07	Pos	0.02	Neg	2.09	Pos	0.02	Neg	3.05	Pos	✓
	1.74	Pos	2.78	Pos	0.03	Neg	1.83	Pos	0.01	Neg	2.76	Pos	✓
	See comment												See comment
	1.68	Pos	1.03	Pos	0.25	Neg	1.64	Pos	0.22	Neg	1.02	Pos	✓
	1.90	Pos	2.70	Pos	0.02	Neg	1.89	Pos	0.03	Neg	2.82	Pos	✓
Consensus Interpretation	Positive		Positive		Negative		Positive		Negative		Positive		

Comment: One laboratory did not report any results.

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

Report Date	17/04/2018
Report Status	Final Report
Test Name	B. abortus ELISA
Test Number (Code)	18/12
Test Month and Year	March 2018

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	0.04	Pos	0.04	Pos	0.13	Pos	0.12	Pos	1.28	Neg	1.30	Neg	✓
	3.11	Pos	3.19	Pos	1.10	Pos	1.10	Pos	0.02	Neg	0.02	Neg	✓
	1.62	Pos	1.54	Pos	1.55	Pos	1.57	Pos	0.49	Neg	0.50	Neg	✓
	2.25	Pos	2.25	Pos	2.51	Pos	2.42	Pos	0.05	Neg	0.05	Neg	✓
	1.45	Pos	1.42	Pos	1.09	Pos	0.88	Pos	0.07	Neg	0.07	Neg	✓
	Lab did not report any results.												
	1.22	Pos	1.29	Pos	1.27	Pos	1.22	Pos	0.04	Neg	0.07	Neg	✓
Consensus Interpretation	Positive		Positive		Positive		Positive		Negative		Negative		

Note: One laboratory did not report any results.

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

Report Date	17/04/2018
Report Status	Final Report
Test Name	B. ovis ELISA
Test Number (Code)	18/11
Test Month and Year	March 2018

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	2.79	Pos	0.23	Neg	0.17	Neg	2.59	Pos	3.22	Pos	0.26	Neg	✓
	2.56	Pos	0.12	Neg	0.06	Neg	2.85	Pos	3.53	Pos	0.14	Neg	✓
	2.97	Pos	0.13	Neg	0.09	Neg	2.87	Pos	3.29	Pos	0.15	Neg	✓
	1.41	Pos	0.10	Neg	0.08	Neg	1.70	Pos	2.01	Pos	0.11	Neg	✓
	2.46	Pos	0.09	Neg	0.06	Neg	2.49	Pos	3.40	Pos	0.09	Neg	✓
	2.99	Pos	0.08	Neg	0.05	Neg	2.89	Pos	3.39	Pos	0.06	Neg	✓
	Lab did not report any results.												See comment
Consensus Interpretation	Positive		Negative		Negative		Positive		Positive		Negative		

Comment: One laboratory did not report any results.

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

Note: Retest samples were not available this round due to limited stock availability.

Report Date	17/04/2018
Report Status	Final Report
Test Name	CAEV ELISA
Test Number (Code)	18/07
Test Month and Year	March 2018

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	0.30	Pos	0.09	Pos	0.96	Neg	0.97	Neg	0.21	Pos	0.21	Pos	✓
	3.73	Pos	3.93	Pos	0.16	Neg	0.17	Neg	3.87	Pos	3.81	Pos	✓
	1.49	Pos	1.23	Pos	0.09	Neg	0.08	Neg	1.45	Pos	1.40	Pos	✓
	1.08	Pos	1.14	Pos	0.13	Neg	0.13	Neg	1.19	Pos	1.12	Pos	✓
	0.43	Pos	0.13	Pos	1.20	Neg	1.13	Neg	0.28	Pos	0.29	Pos	✓
	4.33	Pos	4.60	Pos	0.17	Neg	0.17	Neg	3.96	Pos	3.97	Pos	✓
	2.47	Pos	2.69	Pos	0.04	Neg	0.06	Neg	2.48	Pos	2.57	Pos	✓
	0.24	Pos	0.10	Pos	0.72	Neg	0.73	Neg	0.19	Pos	0.18	Pos	✓
	0.21	Pos	0.07	Pos	0.58	Neg	0.57	Neg	0.14	Pos	0.14	Pos	✓
	3.08	Pos	3.05	Pos	0.02	Neg	0.01	Neg	3.07	Pos	3.09	Pos	✓
	2.70	Pos	2.86	Pos	0.15	Neg	0.14	Neg	2.80	Pos	2.79	Pos	✓
	3.56	Pos	3.83	Pos	0.10	Neg	0.11	Neg	3.85	Pos	3.87	Pos	✓
	2.18	Pos	2.21	Pos	0.07	Neg	0.07	Neg	2.49	Pos	2.53	Pos	✓
	Lab did not report any results.												
Consensus Interpretation	Positive		Positive		Negative		Negative		Positive		Positive		

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

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

Report Date	15/05/2018
Report Status	Final Retest Report
Test Name	EBL ELISA - Milk
Test Number (Code)	18/03
Test Month and Year	February 2018

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	0.08	Neg	0.05	Neg	0.73	Pos	1.30	Pos	0.06	Neg	0.11	Neg	R
	0.66	Pos	0.00	Neg	1.76	Pos	1.78	Pos	-0.01	Neg	0.55	Pos	✓
	0.70	Pos	0.01	Neg	1.33	Pos	1.22	Pos	0.04	Neg	0.81	Pos	✓
	Lab did not report any results												N/A
Consensus Interpretation	Positive		Negative		Positive		Positive		Negative		Positive		
Retest Results													Classification
	0.348	Pos	-		-		-		-		0.559	Pos	R✓

Comment: One laboratory did not report any results.

One laboratory was classified as Retest Result Satisfactory (R✓) for Samples 1 and 6.

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

Report Date	11/07/2018
Report Status	Final Report
Test Name	IBR ELISA
Test Number (Code)	18/19
Test Month and Year	May 2018

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	0.09	Pos	0.95	Neg	0.09	Pos	0.09	Pos	0.05	Pos	0.96	Neg	✓
	2.68	Pos	0.05	Neg	3.73	Pos	2.15	Pos	3.14	Pos	0.05	Neg	✓
	0.09	Pos	1.23	Neg	0.16	Pos	0.12	Pos	0.12	Pos	1.25	Neg	✓
	0.08	Pos	0.83	Neg	0.05	Pos	0.07	Pos	0.05	Pos	0.83	Neg	✓
	0.07	Pos	1.21	Neg	0.07	Pos	0.08	Pos	0.10	Pos	1.17	Neg	✓
	0.11	Pos	0.93	Neg	0.07	Pos	0.10	Pos	0.07	Pos	0.92	Neg	✓
	3.32	Pos	0.06	Neg	3.27	Pos	3.01	Pos	3.37	Pos	0.06	Neg	✓
	0.07	Pos	1.42	Neg	0.05	Pos	0.07	Pos	0.06	Pos	1.38	Neg	✓
	0.06	Pos	1.33	Neg	0.05	Pos	0.07	Pos	0.05	Pos	1.31	Neg	✓
	0.10	Pos	0.89	Neg	0.07	Pos	0.10	Pos	0.07	Pos	0.88	Neg	✓
	0.10	Pos	0.97	Neg	0.07	Pos	0.11	Pos	0.06	Pos	1.00	Neg	✓
	0.03	Pos	0.71	Neg	0.02	Pos	0.03	Pos	0.02	Pos	0.75	Neg	✓
	0.05	Pos	0.96	Neg	0.03	Pos	0.06	Pos	0.03	Pos	1.15	Neg	✓
	See comment												See comment
	See comment												See comment
Consensus Interpretation	Positive		Negative		Positive		Positive		Positive		Negative		

Comment: Two Laboratories did not report any results before due date.

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

Report Date	21/08/2018
Report Status	Final Report
Test Name	JD Bovine ELISA
Test Number (Code)	18/31
Test Month and Year	July 2018

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	0.10	Neg	1.26	Pos	2.66	Pos	1.28	Pos	3.47	Pos	0.10	Neg	✓
	0.08	Neg	1.06	Pos	1.08	Pos	1.07	Pos	1.72	Pos	0.07	Neg	✓
	0.19	Neg	1.19	Pos	3.50	Pos	1.13	Pos	3.76	Pos	0.17	Neg	✓
	0.09	Neg	1.05	Pos	1.92	Pos	0.97	Pos	2.71	Pos	0.08	Neg	✓
	0.05	Neg	0.90	Pos	0.85	Pos	0.97	Pos	1.41	Pos	0.05	Neg	✓
	0.08	Neg	1.48	Pos	2.49	Pos	1.42	Pos	3.09	Pos	0.08	Neg	✓
	0.09	Neg	1.16	Pos	1.43	Pos	1.10	Pos	2.11	Pos	0.08	Neg	✓
	0.09	Neg	1.67	Pos	1.46	Pos	1.69	Pos	2.97	Pos	0.12	Neg	✓
	0.09	Neg	1.44	Pos	1.95	Pos	1.31	Pos	2.57	Pos	0.16	Neg	✓
	0.07	Neg	1.03	Pos	1.32	Pos	1.04	Pos	1.94	Pos	0.07	Neg	✓
	0.09	Neg	1.04	Pos	2.00	Pos	1.11	Pos	2.84	Pos	0.09	Neg	✓
	0.07	Neg	1.22	Pos	1.08	Pos	1.20	Pos	2.48	Pos	0.13	Neg	✓
	0.04	Neg	0.83	Pos	1.69	Pos	0.88	Pos	2.56	Pos	0.05	Neg	✓
	0.07	Neg	1.21	Pos	2.19	Pos	1.20	Pos	2.97	Pos	0.08	Neg	✓
	See comment												See comment
	0.05	Neg	0.93	Pos	1.82	Pos	0.91	Pos	2.58	Pos	0.05	Neg	✓
	0.06	Neg	1.38	Pos	2.12	Pos	1.19	Pos	2.77	Pos	0.06	Neg	✓
Consensus Interpretation	Negative		Positive		Positive		Positive		Positive		Negative		

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

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

SECTION 5: Haemagglutination Inhibition Test (HIT)

Newcastle Disease virus (NDV) HIT

Report Date	15/05/2018
Report Status	Final Retest Report
Test Name	NDV HIT
Test Number (Code)	18/04
Test Month and Year	February 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	128.00	Neg <1/2	Neg <1/2	Neg <1/2	256.00	256.00	✓
	64.00	Neg <1:2	Neg <1:2	Neg <1:2	128.00	128.00	✓
	32.00	Neg <4	Neg <4	Neg <4	128.00	128.00	✓
	64.00	Neg	Neg	Neg	256.00	256.00	✓
	64.00	Neg	Neg	Neg	64.00	128.00	R
	Neg 1:16	Neg <2	Neg <2	Neg <2	64.00	32.00	R
	64.00	Neg	Neg	Neg	256.00	256.00	✓
	64.00	Neg	Neg	Neg	512.00	512.00	✓
	64.00	Neg <4	Neg <4	Neg <4	256.00	256.00	✓
	64.00	Neg @ 1:8	Neg @ 1:8	Neg @ 1:8	256.00	256.00	✓
	Lab did not report any results						N/A
	64.00	Neg <1:8	Neg <1:8	Neg <1:8	128.00	128.00	✓
	64.00	Neg	Neg	Neg	512.00	256.00	✓
	8.00	Neg <2	Neg <2	Neg <2	64.00	128.00	R
Median	Positive 64.00	Negative	Negative	Negative	Positive 256.00	Positive 256.00	
Acceptable Variation Range	Positive 32.00 - 128.00	N/A	N/A	N/A	Positive 128.00 - 512.00	Positive 128.00 - 512.00	
Retest Results							Classification
	-	-	-	-	128.00	-	R✓
	64.00	-	-	-	512.00	256.00	R✓
	32.00	-	-	-	128.00	-	R✓

Comment: One laboratory did not report any results.

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

One laboratory was classified as Retest Result Satisfactory (R✓) for Samples 1, 5 and 6.

One laboratory was classified as Retest Result Satisfactory (R✓) for Samples 1 and 5.

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

SECTION 6: Microscopic Agglutination Test (MAT)

Leptospiral serovar Hardjo MAT – cancelled 2018

Leptospiral serovar Tarassovi MAT

Report Date	17/09/2018
Report Status	Final Report
Test Name	L. tarassovi MAT
Test Number (Code)	18/43
Test Month and Year	August 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	400.00	Neg	Neg	Neg	800.00	1600.00	✓
	See comment						See comment
	Neg	Neg	Neg	Neg	Neg	800.00	Samples 1 & 5 - U Samples 2, 3, 4 & 6 - ✓
	See comment						See comment
	800.00	Neg	Neg	Neg	400.00	1600.00	✓
	3200.00	Neg	Neg	Neg	1600.00	3200.00	Sample 1 – MV Samples 2-6 - ✓
Median	800.00	Negative	Negative	Negative	800.00	1600.00	
Acceptable Variation Range	Positive 1/400.00 - 1600.00	N/A	N/A	N/A	Positive 1/400.00 - 1/1600.00	Positive 1/800.00 - 1/3200.00	

Comment: Two laboratories did not report results by due date.

Note: Retest and/or replacement samples were not available for this test in 2018 due to limited supply availability.

One laboratory was classified as Result Satisfactory (✓) for Samples 2, 3, 4 and 6; and Unacceptable (U) for Samples 1 and 5.

One laboratory was classified as Result Satisfactory (✓) for Samples 2, 3, 4, 5 and 6; and Minor Variation (MV) for Sample 1.

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

SECTION 7: Polymerase Chain Reaction (PCR)

Bovine viral diarrhoea (BVD) PCR

Report Date	31/07/2018
Report Status	Final Report
Test Name	BVDV PCR
Test Number (Code)	18/29
Test Month and Year	June 2018

Laboratory Number	Sample 1	Int.	Sample 2	Int.	Sample 3	Int.	Sample 4	Int.	Sample 5	Int.	Sample 6	Int.	Classification
	25.08	Pos	0.00	Neg	28.58	Pos	28.44	Pos	0.00	Neg	26.03	Pos	✓
	23.58	Pos	N/A	Neg	20.67	Pos	20.04	Pos	N/A	Neg	33.41	Pos	✓
	See comment												See comment
	24.39	Pos	45.00	Neg	22.76	Pos	22.74	Pos	45.00	Neg	23.05	Pos	✓
	23.50	Pos	Not detected	Neg	23.50	Pos	23.30	Pos	Not detected	Neg	23.40	Pos	✓
	26.28	Pos	N/A	Neg	22.97	Pos	22.95	Pos	N/A	Neg	22.86	Pos	✓
	27.62	Pos	0.00	Neg	23.48	Pos	23.19	Pos	0.00	Neg	23.59	Pos	✓
	28.78	Pos	N/A	Neg	26.83	Pos	26.92	Pos	N/A	Neg	26.95	Pos	✓
	23.98	Pos	0.00	Neg	20.42	Pos	20.83	Pos	0.00	Neg	20.79	Pos	✓
	24.70	Pos	-	Neg	21.30	Pos	21.60	Pos	-	Neg	21.40	Pos	✓
	24.30	Pos	>45	Neg	21.53	Pos	22.08	Pos	>45	Neg	22.37	Pos	✓
	See comment												See comment
	24.09	Pos	-	Neg	22.74	Pos	22.40	Pos	-	Neg	21.55	Pos	✓
		Pos		Neg		Pos		Pos		Neg		Pos	✓
	27.94	Pos	Nil	Neg	22.21	Pos	23.25	Pos	Nil	Neg	22.10	Pos	✓
Consensus Interpretation	Positive		Negative		Positive		Positive		Negative		Positive		

Comment: Two laboratories did not submit results on time.

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

SECTION 8: Rose Bengal Plate Test (RBPT)

Brucella abortus (BB) RBPT

Report Date	31/07/2018
Report Status	Final Report
Test Name	B. abortus RBPT
Test Number (Code)	18/30
Test Month and Year	June 2018

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

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

SECTION 9: Serum Agglutination Test (SAT)

Brucella abortus (BB) SAT

Report Date	07/11/2018
Report Status	Final Retest Report
Test Name	B. abortus SAT
Test Number (Code)	18/41
Test Month and Year	August 2018

Laboratory Number	Sample 1	IU/mL	Sample 2	IU/mL	Sample 3	IU/mL	Sample 4	IU/mL	Sample 5	IU/mL	Sample 6	IU/mL	Classification
	See comment												See comment
	Pos	480.00	Pos	240.00	Neg	<30.00	Pos	480.00	Neg	<30.00	Pos	480.00	Samples 1, 3-6 - ✓ Sample 2 - R
	Pos	480.00	Neg	0.00	Neg	0.00	Pos	640.00	Pos	640.00	Neg	0.00	Samples 1-4 - ✓ Samples 5 & 6 - R
	Pos	848.00	Neg	<17.00	Neg	<17.00	Pos	1488.00	Neg	<17.00	Pos	1280.00	✓
	See comment												See comment
	Pos	585.00	Neg	11.00	Neg	11.00	Pos	985.00	Neg	11.00	Pos	828.00	✓
Median	Positive	532.50	Negative		Negative		Positive	812.50	Negative		Positive	654.00	
Acceptable Variation Range	Positive 266.25 - 1065.00		N/A		N/A		Positive 406.25 - 1625.00		N/A		Positive 327.00 - 1308.00		
Retest Results													Classification
	-		Neg	<30	-		-		-		-		R✓
	-		-		-		-		0	Neg	Pos	640	R✓

Comment: Two Laboratories did not report results by the due date.

One laboratory was classified as Retest Result Satisfactory (R✓) for Sample 2.

One laboratory was classified as Retest Result Satisfactory (R✓) for Samples 5 and 6.

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

SECTION 10: Virus Isolation

Bovine Viral Diarrhoea (BVD) Virus Isolation

Report Date	31/07/2018
Report Status	Final Report
Test Name	BVDV Isolation
Test Number (Code)	18/28
Test Month and Year	June 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Pos	Pos	Pos	Pos	Neg	Neg	✓
	Pos	Pos	Pos	Pos	Neg	Neg	✓
	Pos	Pos	Pos	Pos	Neg	Neg	✓
	Pos	Pos	Pos	Pos	Neg	Neg	✓
	Pos	Pos	Pos	Pos	Neg	Neg	✓
	Pos	Pos	Pos	Pos	Neg	Neg	✓
	Pos	Pos	Pos	Pos	Neg	Neg	✓
	Pos	Pos	Pos	Pos	Neg	Neg	✓
	Lab did not test for BVDV Isolation						See comment
Consensus Interpretation	Positive	Positive	Positive	Positive	Negative	Negative	
Acceptable Variation Range	N/A	N/A	N/A	N/A	N/A	N/A	

Comment: One Laboratory reported BVDV PCR results.

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

SECTION 11: Virus Neutralisation Test (VNT)

Aino VNT

Akabane VNT

Bluetongue (BT) VNT

Bovine ephemeral fever (BEF) VNT

Bovine viral diarrhoea virus (BVDV) VNT

Equine viral arteritis (EVA) VNT

Infectious bovine rhinotracheitis (IBR) VNT

Report Date	17/10/2018
Report Status	Final Retest Report
Test Name	Aino VNT
Test Number (Code)	18/32
Test Month and Year	July 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	724.00	29.00	45.00	36.00	<2 Neg	<2 Neg	✓
	160.00	10.00	40.00	20.00	Neg	Neg	Samples 1 & 2 - R Samples 3-6 - ✓
	768.00	64.00	64.00	64.00	<4 Neg	<4 Neg	✓
	512.00	45.00	64.00	45.00	Neg 1:4	Neg 1:4	✓
	320.00	80.00	40.00	40.00	<10 Neg	<10 Neg	✓
Median	Positive 1/512.00	Positive 1/45.00	Positive 1/45.00	Positive 1/40.00	Negative	Negative	
Acceptable Variation Range	Positive 1/256.00 - 1/1024.00	Positive 1/22.50 - 1/90.00	Positive 1/22.50 - 1/90.00	Positive 1/20.00 - 1/80.00	N/A	N/A	
Retest Results							Classification
	320.00	10.00	-	-	-	-	Sample 1 - R✓ Sample 2 - RU

One laboratory was classified as Retest Result Satisfactory (R✓) for Sample 1 and Retest Result Unacceptable (RU) for Sample 2.

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

Report Date	11/07/2018
Report Status	Final Retest Report
Test Name	Akabane VNT
Test Number (Code)	18/18
Test Month and Year	April 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	<2 Neg	45.00	<2 Neg	23.00	91.00	36.00	✓
	Lab did not report any results.						See comment
	Neg	128.00	Neg	16.00	256.00	64.00	Samples 1, 3, 4 & 6 - ✓ Samples 2 & 5 - R
	Neg <4	32.00	Neg <4	16.00	64.00	64.00	✓
	Neg 1/4	64.00	Neg 1/4	89.00	89.00	178.00	Samples 1, 2, 3 & 5 - ✓ Samples 4 & 6 - R
	Neg <4	32.00	Neg <4	32.00	32.00	64.00	Samples 1, 2, 3, 4 & 6 - ✓ Sample 5 - R
Median	Negative	45.00	Negative	23.00	89.00	64.00	
Acceptable Variation Range	N/A	Positive 1/22.50 - 1/90.00	N/A	Positive 1/11.50 - 1/46.00	Positive 1/44.50 - 1/178.00	Positive 1/32.00 - 1/128.00	
Retest Results							Classification
	-	-	-	32.00	-	89.00	R✓
	-	-	-	-	64.00	-	R✓
	-	128.00	-	-	128.00	-	Sample 2 - Rm Sample 5 - R✓

Comment: One laboratory did not report any results.

One laboratory was classified as Retest Result Satisfactory (R✓) for Samples 4 and 6.

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

One laboratory was classified as Retest Result Demonstrating Minor Variation (Rm) for Sample 2 and Retest Result Satisfactory (R✓) for Sample 5.

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

Report Date	15/05/2018
Report Status	Final Retest Report
Test Name	BTV-1 VNT
Test Number (Code)	18/06
Test Month and Year	February 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	Neg <5	Neg <5	28.00	Neg <5	57.00	10.00	R
	Neg <4	Neg <4	36.00	32.00	144.00	40.00	R
	Neg <4	Neg <4	16.00	32.00	32.00	16.00	R
	Neg	Neg	80.00	80.00	80.00	80.00	R
Median	Negative	Negative	Positive 31.75	Positive 32.00	Positive 67.53	Positive 25.30	
Acceptable Variation Range	N/A	N/A	Positive 15.88 - 63.50	Positive 16.00 - 64.00	Positive 33.77 - 135.06	Positive 12.65 - 50.60	
Retest Results							Classification
	-	-	-	20.00	-	20.00	R✓
	-	-	-	-	See comment	-	See comment
	-	-	-	-	16.00	-	RU
	-	-	160.00	320.00	-	160.00	RU

Comment: One laboratory did not report a Retest Result.

One laboratory was classified as Retest Result Satisfactory (R✓) for Samples 4 and 6.

One laboratory was classified as Retest Result Unacceptable (RU) for Sample 5.

One laboratory was classified as Retest Result Unacceptable (RU) for Samples 3, 4 and 6.

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

Report Date	17/10/2018
Report Status	Final Retest Report
Test Name	BEF VNT
Test Number (Code)	18/33
Test Month and Year	July 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	114.00	91.00	<2 Neg	72.00	<2 Neg	18.00	✓
	128.00	144.00	<4 Neg	128.00	<4 Neg	40.00	✓
	80.00	160.00	Neg	160.00	Neg	20.00	✓
	128.00	48.00	<4 Neg	96.00	<4 Neg	48.00	Sample 2 - R Samples 1, 3-6 - ✓
	256.00	128.00	Neg 1:4	128.00	Neg 1:4	32.00	Sample 1 - R Samples 2-6 - ✓
	32.00	128.00	<4 Neg	64.00	<4 Neg	32.00	Sample 1 - R Samples 2-6 - ✓
Median	Positive 1/120.80	Positive 1/128.00	Negative	Positive 1/110.85	Negative	Positive 1/32.00	
Acceptable Variation Range	Positive 1/60.40 - 1/241.60	Positive 1/64.00 - 1/256.00	N/A	Positive 1/55.43 - 1/221.70	N/A	Positive 1/16.00 - 1/64.00	
Retest Results							Classification
	-	96.00	-	-	-	-	R✓
	178.00	-	-	-	-	-	R✓
	64.00	-	-	-	-	-	R✓

One laboratory was classified as Retest Result Satisfactory (R✓) for Sample 2.

Two laboratories were classified as Retest Result Satisfactory (R✓) for Sample 1.

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

Report Date	12/06/2018
Report Status	Final Retest Report
Test Name	BVDV VNT
Test Number (Code)	18/09
Test Month and Year	March 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	4096.00	128.00	Neg <1/2	Neg <1/2	256.00	128.00	Samples 1-4, 6 - ✓ Sample 5 - R
	>2048	362.00	Neg <2	Neg <2	181.00	181.00	Samples 3-6 - ✓ Samples 1 & 2 - R
	2048.00	64.00	Neg 1/4	Neg 1/4	64.00	64.00	✓
	4096.00	128.00	Neg <4	Neg <4	64.00	128.00	✓
	2896.00	89.00	Neg @ 1:2	Neg @ 1:2	64.00	89.00	✓
	1024.00	64.00	Neg <4	Neg <4	256.00	128.00	Samples 2-4, 6 - ✓ Samples 1 & 5 - R
Median	2896.00	106.73	Negative	Negative	107.63	128.00	
Acceptable Variation Range	Positive 1/1448.00 - 1/5792.00	Positive 1/53.37 - 1/213.46	N/A	N/A	Positive 1/53.82 - 1/215.26	Positive 1/64.00 - 1/256.00	
Retest Results							
	-	-	-	-	192.00	-	Sample 5 - R✓
	4096.00	128.00	-	-	-	-	Samples 1 & 2 - R✓
	512.00	-	-	-	128.00	-	Sample 1 - RU Sample 5 - R✓

One laboratory was classified as Retest Result Satisfactory (R✓) Sample 5.

One laboratory was classified as Retest Result Satisfactory (R✓) for Samples 1 and 2.

One laboratory was classified as Retest Result Unacceptable (RU) for Sample 1 and Retest Result Satisfactory (R✓) for Sample 5.

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

Report Date	21/03/2018
Report Status	Final Report
Test Name	EVA VNT
Test Number (Code)	18/02
Test Month and Year	February 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	128.00	Neg <1:2	128.00	Neg <1:2	256.00	256.00	Samples 1-4, 6 ✓ Sample 5 - M
	See comment						
	32.00	Neg	32.00	Neg	64.00	64.00	Samples 1, 2, 4-6 ✓ Sample 3 - M
	45.00	Neg @ 1:4	128.00	Neg @ 1:4	128.00	178.00	✓
	64.00	Neg @ 1:4	128.00	Neg @ 1:4	64.00	64.00	✓
	256.00	Neg	128.00	Neg	64.00	128.00	Samples 2-6 ✓ Sample 1 - M
	Positive 64.00	Negative	Positive 128.00	Negative	Positive 64.00	Positive 128.00	
Acceptable Variation Range	Positive 32.00 – 128.00	N/A	Positive 64.00 – 256.00	N/A	Positive 32.00 – 128.00	Positive 64.00 – 256.00	

Note: Retest samples were not available this round due to limited stock availability.

Comment: One laboratory did not report any results.

One laboratory was classified as Result Demonstrating Minor Variation (M) for Sample 5.

One laboratory was classified as Result Demonstrating Minor Variation (M) for Sample 3.

One laboratory was classified as Result Demonstrating Minor Variation (M) for Sample 1.

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

Report Date	21/12/2018
Report Status	Final Retest Report
Test Name	IBR VNT
Test Number (Code)	18/44
Test Month and Year	September 2018

Laboratory Number	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Classification
	256.00	192.00	Neg <1:1	Neg <1:1	384.00	128.00	✓
	181.00	128.00	Neg <1	Neg <1	256.00	128.00	✓
	512.00	192.00	Neg <1	Neg <1	384.00	192.00	✓
	512.00	256.00	Neg	Neg	1024.00	256.00	Samples 1-4, 6 - ✓ Sample 5 - R
	192.00	64.00	Neg <4	Neg <4	192.00	64.00	Samples 1, 3-6 - ✓ Sample 2 - R
	724.00	256.00	Neg 1:2	Neg 1:2	512.00	256.00	Samples 2-6 - ✓ Sample 1 - R
	256.00	128.00	Neg <4	Neg <4	256.00	128.00	✓
Median	Positive 1/256.00	Positive 1/192.00	Negative	Negative	Positive 1/384.00	Positive 1/128.00	
Acceptable Variation Range	Positive 1/128.00 - 1/512.00	Positive 1/96.00 - 1/384.00	N/A	N/A	Positive 1/192.00 - 1/768.00	Positive 1/64.00 - 1/256.00	
Retest Results							Classification
	-	-	-	-	256.00	-	R✓
	-	48.00	-	-	-	-	Rm
	512.00	-	-	-	-	-	R✓

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

One laboratory was classified as Retest Result Demonstrating Minor Variation (Rm) for Sample 2.

One laboratory was classified as Retest Result Satisfactory (R✓) for Sample 1.

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

SECTION 12: Culture and Identification of *Mycobacterium paratuberculosis*

Johne's Disease Culture Australian National Quality Assurance Program 2018

CULTURE AND IDENTIFICATION OF *MYCOBACTERIUM* *PARATUBERCULOSIS*

Background

The aim of this round of the JD Culture ANQAP was to monitor the performance of a laboratory's ability to isolate *Mycobacterium avium* subspecies *paratuberculosis* (*M. paratuberculosis*) from individual bovine and pooled ovine faecal samples.

Each laboratory received one set of bovine samples and one set of ovine samples. Each laboratory received an identical set. Faeces from non-infected cattle and sheep were used as negative samples. The samples were supplied by the Johne's Disease National Reference Laboratory at the Department of Economic Development, Jobs, Transport and Resources (DEDJTR), Victoria in conjunction with ANQAP.

JD Bovine Culture 2018

Methodology

Eight laboratories enrolled in this round of testing (Table 1).

Table 1. Reported methods used to culture and identify *M. paratuberculosis* in bovine faeces.

Laboratory Code	Test Method	Culture Method			Identification Test			
		Amount of faeces cultured (g)	Sample processing method	Primary culture medium	Mycobactin dependency	Primary identification and/or detection PCR	Strain typing IS1311 PCR	Restriction Enzyme Analysis
	ANZSDP	2.0	di/c	Sydney Uni. Supplemented 7H9C vials; Modified 7H10 solid medium with mycobactin J; Modified 7H10 solid medium without mycobactin J	Yes	Yes ^a	N/A	N/A
	ANZSDP	2.0	As per ANZSDP	M7H9C	N/A	Yes ^b	N/A	N/A
	ANZSDP	3.0	University of Sydney	M7H9C & 7H10	Yes	Yes ^c	Yes	Yes
	ANZSDP	2.0	di/c	M7H9C with mycobactin added	N/A	Yes ^{d & e}	Yes	N/A
	In -house	2.0	Provided to ANQAP	Thermo Scientific TREK para-JEM Broth and supplements GS, AS, EYS, Blue.	N/A	Yes ^f	N/A	N/A
	ANZSDP	2.0	ANZSDP	In-house with mycobactin J	Yes	Yes	Yes	Yes
	ANZSDP	1.47 - 1.52	di/c	M7H9C with mycobactin added	Yes	Yes ^g	Yes ^h	Yes
	Versa TREK liquid culture system and Identification by IS900 PCR	2 - 2.25	di	ParaJem broth	N/A	Yes	N/A	N/A

Key

di: double incubation

c: centrifugation

a: Millar *et al.* 1994 for PCR and Kawaji *et al.* (2007) for HT-PCR;

b: 150C and 921;

c: HT-J qPCR primers=Kawaji *et al.* and Marshall 1999;

d: FANG *et al.* J Clinical Micro (2002) 40:287-291;

e: MARSH *et al.* Mol Cell Probes (1999) 13:115-126;

f: Applied Biosystems VetMAX gold;

g: MP10-1. MP11-1 Kawaji *et al.*;

h: M56, M119 Marsh *et al.* 1999 & Whittington *et al.* 2001.

Majority of laboratories reported receiving their samples within two days.

Results

Table 2. Reported results for identification of *M. paratuberculosis* in bovine faeces.

Report Date	28/02/2019
Report Status	Final Report
Test Name	JD Bovine Culture 2018
Test Number	18/35
Test Month and Year	July 2018

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	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	Pos	Pos	Neg	Neg	Pos	Samples 1 & 4 - U Samples 2, 3, 5 & 6 - ✓
Consensus Interpretation	Negative	Positive	Positive	Positive	Negative	Positive	

Note: Retest samples were not available for this round.

One laboratory was classified as Result Unacceptable (U) for Samples 1 and 4.

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

JD Ovine Culture 2018

Methodology

Eight laboratories enrolled in this round of testing (Table 3).

Table 3. Reported methods used to culture and identify *M. paratuberculosis* in ovine faeces.

Laboratory Code	Test Method	Culture Method			Identification Test			
		Amount of faeces cultured (g)	Sample processing method	Primary culture medium	Mycobactin dependency	Primary identification and/or detection PCR	Strain typing IS1311 PCR	Restriction Enzyme Analysis
	ANZSDP	2.0	di/c	Sydney Uni. Supplemented 7H9C vials Modified 7H10 solid medium with mycobactin J Modified 7H10 solid medium without mycobactin J	Yes	Yes ^a	No	No
	ANZSDP	15.0	As per ANZSDP	M7H9C	No	Yes ^b	No	No
	ANZSDP	3.0	Supplied by University of Sydney	M7H9C and 7H10	Yes	Yes ^c	Yes ^d	Yes
	ANZSDP	2.0	di/c	M7H9C with mycobactin added	No	Yes ^e	Yes ^f	No
	In-house	1.0	Supplied to ANQAP	Thermo Scientific TREK para-Jem Broth and supplements GS, AS, Blue. Modified Middlebrooks 7H10	No	Yes ^g	No	No
	ANZSDP	1.5	ANZSDP	In-house with mycobactin J	Yes	Yes	Yes	Yes
	ANZSDP	1.47 – 1.52	di/c	In-house, M7H9C	Yes	Yes ^h	Yes ⁱ	Yes
	Culture using Versa TREK liquid culture system and identification by IS900 PCR	2 – 2.5	di	ParaJem broth	N/A	Yes	No	No

Key

di: double incubation

c: centrifugation

^a: Millar *et al.* (1994) for PCR and Kawaji *et al.* (2007) for HT-PCR;

^b: IS900/921 and IS900/150C;

^c: HT-J qPCR primers = Kawaji *et al.* 2007;

^d: Marshall 1999;

^e: FANG *et al.* J Clinical Micro (2002) 40:287-291;

^f: MARSH *et al.* Mol Cell Probes (1999) 13:115-126;

^g: Applied Biosystems VetMax Gold'

^h: MP10-1. MP11-1 Kawaji *et al.*;

ⁱ: M56, M119 Marsh *et al.* 1999 & Whittington *et al.* 2001.

Majority of laboratories reported receiving their samples within two days.

Results

Table 4. Reported results for identification of *M. paratuberculosis* in ovine faeces.

Report Date	28/02/2019
Report Status	Final Report
Test Name	JD Ovine Culture 2018
Test Number	18/36
Test Month and Year	July 2018

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

Note: Retest samples were not available for this round.

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

SECTION 13: Culture and Gelatin Gel Testing of *Dichelobacter nodosus*

Prepared by:
E Klein, Manager
Australian Reference Laboratory for
Dichelobacter nodosus, Western Australia

Gelatin Gel Quality Assurance Tests 2018-19

Participating laboratories; NSW DPI, Faculty of Veterinary Science, University of Sydney, NSW, SVDL Bacteriology NSW DPI, and also tested "blind" by the South Perth Bacteriology.

Strain code	Strain ID	Gelatin gel	Lab 1	Lab 2	Lab 3
			%rem. prot @ 8 min	%rem. prot @ 8 min	%rem. prot @ 8 min
1	AC 8011	POS	31	22	32
CM 28	AVR 17.6-44.4		Pass	Pass	Pass
2	AC 8004	NEG	6.7	4.6	4.5
CM 5.2	AVR 3.2-8.2		Pass	Pass	Pass
3	AC 8007	POS	46	31	22
CM 33	AVR 20.8-52.3		Pass	Pass	Pass
4	AC 8015	POS	31	31	22
CM 28	AVR 17.6-44.3		Pass	Pass	Pass
5	AC 8008	POS	31	14.5	9
CM 46	AVR 29-73		Pass	Pass	Pass
6	AC 8015	POS	22	46	22
CM 30	AVR 18.9-47.5		Pass	Pass	Pass
7	AC 8014	POS	22	46	46
CM 38	AVR 18.9-47.5		Pass	Pass	Pass
8	AC 8012	POS	46	46	32
CM 41	AVR 25.8 - 64.9		Pass	Pass	Pass
9	AC 8001	NEG	6.8	6.8	3.5
CM 5.7	AVR 3.6-9.0		Pass	Pass	Pass
10	AC 8014	POS	31	68	No result
CM 49	AVR 31-78		Pass	Pass	
NEG	ST 305	NEG	9.9	9.9	7
CM 10.2	AVR 6.4-16.1		Pass	Pass	Pass
POS	ST 198	POS	46	46	46
CM 46	AVR 29-73		Pass	Pass	Pass

% rem prot @ 8 min = Protease activity after heating for 8 minutes, expressed as a percentage of the activity before heating

CM = consensus mean. AVR = Acceptable variation range.

Pass* indicates isolate correctly identified as gelatin gel positive/negative, but result marginally outside the AVR, Result acceptable, re-test not required.

Ten isolates of *Dichelobacter nodosus* (identified 1-10) were sent to each of the following laboratories for Gelatin gel testing

Lab 1: DPIRD Diagnostics and Laboratory Services, Bacteriology,
South Perth 6100

Lab 2: SVDL Bacteriology NSW DPI
Woodbridge Road Menangle 2568

Lab 3: The University of Sydney FAVPH
Narellan NSW 2567

Laboratories were requested to prepare broth cultures of each isolate and perform Gelatin gel tests on these, isolates 1-5 were tested December 2018 and 6-10 in March 2019

Some laboratories had problems getting some of the freeze dried cultures to grow, therefore a comment of a "No result" will appear against the strain code. One laboratory enrolled did not return any results.

End of Report

ANQAP treats all information provided by participants in confidence.

No laboratory or organization can use this information without prior written consent.

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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