

BIOLOGICAL HEALTH RISKS  
QUALITY OF LABORATORIES

EXTERNAL QUALITY ASSESSMENT  
VETERINARY DIAGNOSIS

PRELIMINARY REPORT  
VETERINARY MEDICINE  
BOVINE VIRAL DIARRHEA (BVD)  
SEROLOGY & VIROLOGY  
PT 2022/10

Expected results:

## 1. Serology

### 1.1 Serum (ELISA)

#### 1.1.1 The samples

The panel consisted of 9 different samples: 5 positive and 4 negative samples. Negative sample N3 was repeated twice.

Sample ID	Repetition	Status
PT2022BVDSERSP1	1	POS
PT2022BVDSERSP2	1	POS
PT2022BVDSERSP3	1	POS
PT2022BVDSERSP4	1	POS
PT2022BVDSERSP5	1	POS
PT2022BVDSERSN1	1	NEG
PT2022BVDSERSN2	1	NEG
PT2022BVDSERSN3	2	NEG
PT2022BVDSERSN4	1	NEG

POS = positive; NEG = negative

## 1.1.2 Randomisation

Sample ID: BVDSERSER(E)	97505	97507	97508	97509	97513	97521	97541
22-1	P5	N1	N4	P3	N2	P3	P1
22-2	P4	N4	N1	N2	N4	P4	P4
22-3	P2	P4	P3	N3	N1	N1	P3
22-4	N3	N3	N3	P1	N3	N4	N4
22-5	N3	N2	P4	P4	N3	P1	N3
22-6	N1	N3	P1	P5	P3	P5	N2
22-7	P1	P1	P5	P2	P2	N3	N1
22-8	N2	P5	P2	N4	P1	N3	P5
22-9	N4	P2	N2	N3	P5	N2	P2
22-10	P3	P3	N3	N1	P4	P2	N3

## 2. Virology

### 2.1 Serum (ELISA)

#### 2.1.1 The samples

The panel consisted of 9 different samples: 5 positive and 4 negative samples. Negative sample N2 was repeated twice.

Sample ID	Repetition	Status
PT2022BVDAgVIRSP1	1	POS
PT2022BVDAgVIRSP2	1	POS
PT2022BVDAgVIRSP3	1	POS
PT2022BVDAgVIRSP4	1	POS
PT2022BVDAgVIRSP5	1	POS
PT2022BVDAgVIRSN1	1	NEG
PT2022BVDAgVIRSN2	2	NEG
PT2022BVDAgVIRSN3	1	NEG
PT2022BVDAgVIRSN4	1	NEG

POS = positive; NEG = negative

## 2.1.2 Randomisation

Sample ID: BVDVIRSER(E)	97505	97507	97508	97509	97513	97521
22-1	N3	N2	P4	N3	P1	N1
22-2	P5	P4	N3	P2	P4	N4
22-3	P2	N1	N2	P5	P3	P1
22-4	P1	N3	N4	N2	N2	P5
22-5	P4	P2	N1	P4	N4	P2
22-6	N1	P1	P5	P1	N2	N2
22-7	N2	P3	N2	N2	P5	P3
22-8	N2	N4	P1	P3	N1	N3
22-9	P3	P5	P2	N4	N3	N2
22-10	N4	N2	P3	N1	P2	P4

## 2.2 Serum (PCR)

### 2.2.1 The samples

The panel consisted of 8 different samples: 5 positive and 3 negative samples. Negative samples N1 and N2 were repeated twice.

Sample ID	Repetition	Status
PT2022BVDVIRSP1	1	POS
PT2022BVDVIRSP2	1	POS
PT2022BVDVIRSP3	1	POS
PT2022BVDVIRSP4	1	POS
PT2022BVDVIRSP5	1	POS
PT2022BVDVIRSN1	2	NEG
PT2022BVDVIRSN2	2	NEG
PT2022BVDVIRSN3	1	NEG

POS = positive; NEG = negative

## 2.2.2 Randomisation

Sample ID: BVDVIRSER(P)	97505	97507	97508	97510	97513	97521	97534
22-1	N2	P4	N1	P2	P5	N1	P3
22-2	P1	N1	N2	N1	P3	N1	P4
22-3	P2	N3	P3	N1	N2	N3	N2
22-4	P4	P1	P2	P1	N2	N2	N1
22-5	N1	P5	P5	N2	P1	P4	P1
22-6	P5	P3	P4	P4	N1	P3	N3
22-7	N3	N2	N2	P5	P4	P2	N1
22-8	P3	N2	N3	P3	N1	N2	P5
22-9	N1	P2	P1	N3	N3	P1	N2
22-10	N2	N1	N1	N2	P2	P5	P2

## 2.3 Blood (ELISA)

### 2.3.1 The samples

The panel consisted of 8 different samples: 4 positive and 4 negative samples. Positive sample P2 and negative sample N3 were repeated twice.

Sample ID	Repetition	Status
PT2022BVDAgVIRBP1	1	POS
PT2022BVDAgVIRBP2	2	POS
PT2022BVDAgVIRBP3	1	POS
PT2022BVDAgVIRBP4	1	POS
PT2022BVDAgVIRBN1	1	NEG
PT2022BVDAgVIRBN2	1	NEG
PT2022BVDAgVIRBN3	2	NEG
PT2022BVDAgVIRBN4	1	NEG

POS = positive; NEG = negative

### 2.3.2 Randomisation

Sample ID: BVDVIRBLOOD(E)	97505	97507	97508	97509	97521
22-1	P3	N3	P1	N3	N2
22-2	P1	P1	P2	P4	N3
22-3	N4	N2	N3	N1	P1
22-4	N3	P2	P4	P3	P2
22-5	P2	P2	N2	N4	N3
22-6	N1	N3	P2	P1	P2
22-7	N2	N1	N3	N2	N4f
22-8	P2	P4	P3	N3	N1
22-9	P4	N4	N4	P2	P3
22-10	N3	P3	N1	P2	P4

### 2.4 Blood (PCR)

#### 2.4.1 The samples

The panel consisted of 8 different samples: 4 positive and 4 negative samples. Positive sample P1 and negative sample N2 were repeated twice.

Sample ID	Repetition	Status
PT2022BVDVIRBP1	2	POS
PT2022BVDVIRBP2	1	POS
PT2022BVDVIRBP3	1	POS
PT2022BVDVIRBP4	1	POS
PT2022BVDVIRBN1	1	NEG
PT2022BVDVIRBN2	2	NEG
PT2022BVDVIRBN3	1	NEG
PT2022BVDVIRBN4	1	NEG

POS = positive; NEG = negative

## 2.4.2 Randomisation

Sample ID: BVDVIRBLOOD(P)	97505	97507	97508	97516	97521	97534
22-1	P2	N2	P1	N1	P3	N2
22-2	P1	N3	N1	P3	P1	N1
22-3	N2	N1	N2	P1	P1	N4
22-4	P1	P1	P3	P1	N4	P3
22-5	N4	P2	P2	P4	P4	P2
22-6	P3	N2	N2	N2	N2	P4
22-7	N3	P4	P1	N4	P2	P1
22-8	P4	P3	N4	P2	N1	N2
22-9	N1	P1	P4	N3	N3	P1
22-10	N2	N4	N3	N2	N2	N3

## 2.5 Ear notch (ELISA)

### 2.5.1 The samples

The panel consisted of 10 different samples: 5 positive and 5 negative samples. No repetitions were included.

Sample ID	Repetition	Status
PT2022BVDAgVIREP1	1	POS
PT2022BVDAgVIREP2	1	POS
PT2022BVDAgVIREP3	1	POS
PT2022BVDAgVIREP4	1	POS
PT2022BVDAgVIREP5	1	POS
PT2022BVDAgVIREN1	1	NEG
PT2022BVDAgVIREN2	1	NEG
PT2022BVDAgVIREN3	1	NEG
PT2022BVDAgVIREN4	1	NEG
PT2022BVDAgVIREN5	1	NEG

POS = positive; NEG = negative

## 2.5.2 Randomisation

Sample ID: BVDVIREN(E)	97505	97507	97508	97509	97513	97521
22-1	P3	P5	N5	P2	P5	P1
22-2	N1	N5	P3	N1	P4	P5
22-3	P4	N4	N1	N5	P3	N4
22-4	N2	P4	N3	P5	N3	P1
22-5	N4	P3	N2	P3	P1	N2
22-6	P1	N1	P5	N4	N4	N5
22-7	N5	P1	P1	N3	N5	P4
22-8	P2	N3	N4	P4	N2	N1
22-9	N3	P2	P2	N2	N1	N3
22-10	P5	N2	P4	P1	P2	P2

## 2.6 Ear notch (PCR)

### 2.6.1 The samples

The panel consisted of 10 different samples: 5 positive and 5 negative samples. No repetitions were included.

Sample ID	Repetition	Status
PT2022BVDVIREP1	1	POS
PT2022BVDVIREP2	1	POS
PT2022BVDVIREP3	1	POS
PT2022BVDVIREP4	1	POS
PT2022BVDVIREP5	1	POS
PT2022BVDVIREN1	1	NEG
PT2022BVDVIREN2	1	NEG
PT2022BVDVIREN3	1	NEG
PT2022BVDVIREN4	1	NEG
PT2022BVDVIREN5	1	NEG

POS = positive; NEG = negative

## 2.6.2 Randomisation

Sample ID: BVDVIREN(P)	97505	97507	97508	97513	97516	97521	97534
22-1	P4	P1	P1	N3	N3	N5	P4
22-2	P3	N4	N3	P5	N2	P1	P3
22-3	N5	N3	N5	P3	N4	P2	P5
22-4	N1	P3	P4	N2	P5	N3	N2
22-5	P5	P4	N1	N5	P1	P5	N4
22-6	N4	N2	P3	N1	P2	N1	P2
22-7	N3	N5	P5	P1	P3	N2	N1
22-8	N2	P5	N2	N4	N1	N4	N3
22-9	P2	N1	N4	P4	N5	P3	P1
22-10	P1	P2	P2	P2	P4	P4	N5

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**END**

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