

## Supplementary material

**S1. All BTV-25 specific RT-qPCR (Cq value) and cELISA (S/N%) results of the goat herd over time.** Goats were considered positive for BTV-25 specific RT-qPCR when Cq <40 were measured. The cut-off for the cELISA was 50% and serum samples with a ratio S/N% ≤ 50% were scored positive.

	02/2015		'07/08/2018		04/09/2018		03/12/2018		16/05/2019		'08/10/2019	
goat	PCR	ELISA	PCR	ELISA	PCR	ELISA	PCR	ELISA	PCR	ELISA	PCR	ELISA
<b>Negative results in RT-qPCR and in cELISA</b>												
1	-	-	no Cq	101	no Cq	69	no Cq	91	no Cq	128	no Cq	117
3	-	-	no Cq	70	no Cq	70	no Cq	50	no Cq	82	no Cq	109
5	-	-	no Cq	110	no Cq	95	no Cq	101	no Cq	123	no Cq	137
9	-	-	no Cq	114	no Cq	115	no Cq	111	no Cq	131	no Cq	118
12	-	-	no Cq	119	no Cq	109	no Cq	124	no Cq	126	no Cq	143
20	-	-	no Cq	90	no Cq	90	no Cq	100	no Cq	90	no Cq	95
28	-	-	no Cq	107	no Cq	88	no Cq	99	no Cq	118	no Cq	120
29	-	-	no Cq	117	no Cq	97	no Cq	103	no Cq	120	-	-
30	-	-	no Cq	90	no Cq	84	no Cq	93	-	-	-	-
32	-	-	no Cq	95	no Cq	82	no Cq	92	no Cq	102	no Cq	108
33	-	-	no Cq	124	no Cq	123	no Cq	121	no Cq	126	no Cq	132
36	-	-	no Cq	95	no Cq	95	-	-	-	-	-	-
37	-	-	no Cq	69	no Cq	71	no Cq	83	no Cq	100	no Cq	104
42	-	-	no Cq	73	no Cq	69	no Cq	74	no Cq	101	no Cq	93
47	-	-	no Cq	91	no Cq	79	no Cq	83	no Cq	121	no Cq	122
49	-	-	no Cq	80	no Cq	71	no Cq	79	no Cq	82	no Cq	94
50	-	-	no Cq	61	no Cq	66	no Cq	66	-	-	-	-
52	-	-	no Cq	89	no Cq	93	no Cq	87	-	-	-	-
59	-	-	no Cq	128	no Cq	111	no Cq	107	no Cq	116	no Cq	123
63	-	-	no Cq	129	no Cq	113	-	-	-	-	-	-
65	-	-	no Cq	101	no Cq	88	no Cq	77	no Cq	110	-	-
74	-	-	no Cq	76	no Cq	62	no Cq	69	no Cq	103	no Cq	98
75	-	-	no Cq	95	no Cq	79	no Cq	81	no Cq	100	no Cq	97
77	-	-	no Cq	114	no Cq	89	no Cq	79	-	125	no Cq	113
82	-	-	no Cq	94	no Cq	80	no Cq	51	no Cq	83	no Cq	73
84	-	-	no Cq	94	no Cq	83	-	-	-	-	-	-
86	-	-	no Cq	99	no Cq	87	no Cq	86	no Cq	116	no Cq	116
87	-	-	no Cq	102	no Cq	75	no Cq	78	no Cq	114	no Cq	99
89	-	-	no Cq	81	no Cq	88	no Cq	91	no Cq	132	no Cq	120
90	-	-	no Cq	70	no Cq	85	no Cq	79	no Cq	119	no Cq	94
92	-	-	no Cq	75	no Cq	90	no Cq	79	no Cq	120	no Cq	105
93	-	-	no Cq	98	no Cq	106	no Cq	94	no Cq	135	no Cq	128
94	-	-	no Cq	93	no Cq	100	no Cq	109	no Cq	145	no Cq	138
98	-	-	no Cq	66	no Cq	65	no Cq	81	no Cq	130	no Cq	107
100	-	-	no Cq	74	no Cq	98	no Cq	94	no Cq	120	no Cq	109
101	-	-	no Cq	71	no Cq	85	no Cq	96	no Cq	105	no Cq	101
103	-	-	no Cq	71	no Cq	88	no Cq	56	no Cq	106	no Cq	114
104	-	-	no Cq	85	no Cq	90	no Cq	103	no Cq	94	no Cq	96

105	-	-	no Cq	76	no Cq	94	no Cq	87	no Cq	108	no Cq	113
109	-	-	no Cq	57	no Cq	83	no Cq	89	no Cq	103	no Cq	115
112	-	-	no Cq	66	no Cq	102	no Cq	91	no Cq	107	no Cq	107
113	-	-	no Cq	60	no Cq	77	no Cq	80	no Cq	108	no Cq	103
116	-	-	no Cq	88	no Cq	90	no Cq	-	no Cq	125	no Cq	126
117	-	-	no Cq	83	no Cq	97	no Cq	84	no Cq	112	-	-
118	-	-	no Cq	57	no Cq	67	no Cq	85	-	-	-	-
131	-	-	-	-	-	-	-	-	no Cq	98	no Cq	100
133	-	-	-	-	-	-	-	-	no Cq	92	no Cq	79
134	-	-	-	-	-	-	-	-	-	-	no Cq	68
135	-	-	-	-	-	-	-	-	-	-	no Cq	92
136	-	-	-	-	-	-	-	-	-	-	no Cq	107

**Constantly positive results in RT-qPCR**

**Thereof negative in cELISA**

22	-	-	38.3	96	30.0	96	31.5	100	34.6	122	38.7	124
40	-	-	36.6	75	33.8	70	32.5	70	31.7	89	-	-
45	32.8	76	37.9	84	33.5	80	31.1	77	35.6	95	35.0	57
60	-	-	36.5	109	31.4	89	31.8	88	30.1	101	34.6	114
61	-	-	36.2	70	35.8	57	34.3	57	34.6	75	38.4	78
110	-	-	35.0	68	34.1	63	28.5	80	33.0	104	35.2	92
129	-	-	-	-	-	-	-	-	30.8	84	31.7	102

**Thereof positive in cELISA**

26	-	-	32.3	40	31.4	36	34.5	46	30.1	40	34.7	39
27	-	-	33.5	19	31.8	20	36.1	18	-	-	-	-
39	-	-	36.5	4	32.3	5	32.2	4	34.0	4	37.6	3
41	-	-	33.9	5	33.2	7	33.9	5	-	-	-	-
58	-	-	36.5	17	35.2	22	35.0	21	32.9	32	34.4	27
91	-	-	30.2	9	30.7	12	30.0	9	28.9	13	36.8	12

**Thereof variable in cELISA**

24	32.2	127	31.1	24	30.5	35	29.3	43	28.1	63	36.5	74
51	-	-	33.9	55	32.4	56	33.5	32	29.0	72	34.5	72
85	-	-	37.0	114	31.7	89	30.0	48	34.4	77	35.9	54
108	-	-	30.2	73	30.0	75	28.5	55	27.2	7	32.3	5
111	-	-	37.6	73	34.9	78	34.3	64	31.2	60	34.5	47

**Constantly negative in RT-qPCR**

**Thereof variable in cELISA**

53	-	-	no Cq	86	no Cq	36	no Cq	87	-	-	-	-
57	-	-	no Cq	73	no Cq	71	no Cq	69	no Cq	44	no Cq	8
68	-	-	no Cq	76	no Cq	63	no Cq	44	no Cq	63	no Cq	65
83	-	-	no Cq	72	no Cq	68	no Cq	79	no Cq	66	no Cq	43

**Thereof positive in cELISA**

55	-	-	no Cq	8	no Cq	9	no Cq	7	no Cq	8	no Cq	5
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**Positive results for individual samples in RT-qPCR**

**Thereof constantly negative in cELISA**

4	-	-	no Cq	124	no Cq	114	no Cq	89	no Cq	110	38.6	51
6	-	-	no Cq	122	no Cq	101	no Cq	91	no Cq	124	35.7	73

13	-	-	no Cq	106	no Cq	104	no Cq	108	no Cq	116	35.5	82
14	no Cq	59.1	33.8	71	34.0	64	32.3	68	33.5	87	-	-
15	-	-	35.3	69	32.4	73	31.0	80	no Cq	118	36.2	134
16	no Cq	52.9	33.5	60	34.5	66	33.9	67	34.9	81	-	-
17	-	-	36.0	92	35.0	88	31.2	99	35.6	97	no Cq	104
18	-	-	no Cq	62	37.8	68	no Cq	64	35.8	86	-	-
19	-	-	no Cq	105	no Cq	99	no Cq	88	35.2	125	no Cq	100
23	-	-	36.9	80	37.0	80	no Cq	88	no Cq	111	no Cq	68
35	-	-	36.0	97	34.3	104	no Cq	111	36.5	124	no Cq	140
38	-	-	no Cq	122	no Cq	128	31.9	56	no Cq	55	no Cq	73
44	-	-	no Cq	117	36.3	100	no Cq	107	no Cq	135	no Cq	132
56	-	-	no Cq	116	no Cq	99	33.6	85	no Cq	114	no Cq	116
62	-	-	35.6	104	31.8	102	36.4	101	29.4	106	no Cq	112
64	-	-	35.7	87	no Cq	78	34.7	74	-	-	-	-
73	-	-	no Cq	91	36.1	78	33.0	64	31.1	77	-	-
78	-	-	35.2	132	38.2	86	31.1	94	no Cq	98	no Cq	120
80	-	-	no Cq	118	no Cq	66	no Cq	82	32.9	122	no Cq	120
88	-	-	36.0	108	no Cq	86	no Cq	88	32.5	86	-	-
96	-	-	no Cq	57	37.1	56	no Cq	61	36.5	64	no Cq	54
99	-	-	no Cq	59	37.2	96	no Cq	79	no Cq	92	no Cq	51
106	-	-	30.0	53	29.3	61	30.1	58	30.5	80	no Cq	91
107	-	-	no Cq	51	37.1	73	31.3	64	34.0	99	37.1	103
119	-	-	-	-	-	-	no Cq	74	no Cq	115	32.8	93
120	-	-	-	-	-	-	no Cq	106	no Cq	122	36.4	70
121	-	-	-	-	-	-	-	-	no Cq	123	35.2	67
122	-	-	-	-	-	-	-	-	no Cq	114	36.5	95
123	-	-	-	-	-	-	-	-	no Cq	133	31.2	118
124	-	-	-	-	-	-	-	-	no Cq	134	35.6	93
125	-	-	-	-	-	-	-	-	no Cq	135	34.0	110
126	-	-	-	-	-	-	-	-	no Cq	123	31.8	61
128	-	-	-	-	-	-	-	-	no Cq	98	32.3	99
130	-	-	-	-	-	-	-	-	no Cq	132	34.4	70
132	-	-	-	-	-	-	-	-	no Cq	114	36.8	80

**Thereof variable in cELISA**

2	-	-	no Cq	81	no Cq	67	no Cq	67	35.0	23	no Cq	61
7	-	-	37.2	29	34.3	32	37.1	27	no Cq	58	no Cq	57
8	-	-	no Cq	69	no Cq	72	no Cq	65	35.8	12	no Cq	62
11	-	-	no Cq	90	no Cq	21	no Cq	75	no Cq	96	37.4	97
21	-	-	no Cq	26	no Cq	30	no Cq	40	no Cq	59	no Cq	7
25	-	-	37.0	46	34.2	50	36.3	57	no Cq	74	no Cq	73
34	-	-	no Cq	53	36.1	54	32.6	33	33.1	62	no Cq	77
46	-	-	no Cq	45	no Cq	45	no Cq	44	33.6	66	38.4	65
48	-	-	no Cq	43	no Cq	63	no Cq	65	no Cq	79	-	-
54	-	-	no Cq	20	no Cq	25	no Cq	27	no Cq	61	no Cq	49
70	-	-	38.1	50	35.9	44	34.0	40	33.8	55	no Cq	47
76	-	-	33.6	51	35.8	22	36.6	31	33.6	41	no Cq	52
79	-	-	37.9	36	no Cq	34	no Cq	42	no Cq	55	no Cq	61

102	-	-	no Cq	43	38.2	60	30.6	66	32.3	27	34.5	4
114	-	-	no Cq	42	no Cq	60	no Cq	75	no Cq	107	no Cq	109
72	36.2	55	no Cq	33	35.3	32	no Cq	111	no Cq	139	37.1	93
127	-	-	-	-	-	-	-	-	32.2	28	no Cq	77
31	-	-	no Cq	92	no Cq	87	no Cq	92	35.7	37	no Cq	7
67	-	-	no Cq	55	36.8	40	34.0	10	36.9	39	no Cq	10
115	-	-	37.0	61	38.0	75	30.7	57	no Cq	59	no Cq	38
<b>Thereof constantly positive in cELISA</b>												
10	-	-	34.4	25	no Cq	43	34.0	49	no Cq	43	36.3	45
43	-	-	no Cq	41	36.4	26	33.0	17	29.7	44	-	-
66	-	-	no Cq	25	37.3	23	38.4	19	33.8	32	38.8	26
71	-	-	38.0	10	no Cq	11	no Cq	8	35.2	11	no Cq	6
81	-	-	no Cq	17	34.7	19	38.0	13	no Cq	27	39.5	27
95	-	-	no Cq	14	no Cq	19	33.8	13	34.8	17	37.4	12
97	-	-	35.3	4	34.4	10	35.0	4	35.3	6	no Cq	4
69	-	-	no Cq	39	-	-	-	-	-	-	-	-
137	-	-	-	-	-	-	-	-	-	-	no Cq	16
138	-	-	-	-	-	-	-	-	-	-	no Cq	20