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.

| No. | 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 |
| 1   | -     | -   | no Cq | 101 | no Cq | 91   | no Cq | 128 | no Cq | 117 |
| 3   | -     | -   | no Cq | 70  | no Cq | 50   | no Cq | 82  | no Cq | 109 |
| 5   | -     | -   | no Cq | 110 | no Cq | 95   | no Cq | 137 |
| 9   | -     | -   | no Cq | 114 | no Cq | 115  | no Cq | 131 | no Cq | 118 |
| 12  | -     | -   | no Cq | 119 | no Cq | 109  | no Cq | 126 | no Cq | 143 |
| 20  | -     | -   | no Cq | 90  | no Cq | 90   | no Cq | 95  |
| 28  | -     | -   | no Cq | 107 | no Cq | 88   | no Cq | 118 | no Cq | 120 |
| 29  | -     | -   | no Cq | 117 | no Cq | 97   | no Cq | 120 |
| 30  | -     | -   | no Cq | 90  | no Cq | 84   | no Cq | -   |
| 32  | -     | -   | no Cq | 95  | no Cq | 82   | no Cq | 102 | no Cq | 108 |
| 33  | -     | -   | no Cq | 124 | no Cq | 123  | no Cq | 132 |
| 36  | -     | -   | no Cq | 95  | no Cq | 95   | -     |
| 37  | -     | -   | no Cq | 69  | no Cq | 71   | no Cq | 100 | no Cq | 104 |
| 42  | -     | -   | no Cq | 73  | no Cq | 69   | no Cq | 101 | no Cq | 93  |
| 47  | -     | -   | no Cq | 91  | no Cq | 79   | no Cq | 121 | no Cq | 122 |
| 49  | -     | -   | no Cq | 80  | no Cq | 71   | no Cq | 82  | no Cq | 94  |
| 50  | -     | -   | no Cq | 61  | no Cq | 66   | no Cq | -   |
| 52  | -     | -   | no Cq | 89  | no Cq | 93   | no Cq | 87  |
| 59  | -     | -   | no Cq | 128 | no Cq | 111  | no Cq | 107 | no Cq | 116 |
| 63  | -     | -   | no Cq | 129 | no Cq | 113  | -     |
| 65  | -     | -   | no Cq | 101 | no Cq | 88   | no Cq | 110 |
| 74  | -     | -   | no Cq | 76  | no Cq | 62   | no Cq | 103 | no Cq | 98  |
| 75  | -     | -   | no Cq | 95  | no Cq | 79   | no Cq | 100 | no Cq | 97  |
| 77  | -     | -   | no Cq | 114 | no Cq | 89   | no Cq | 125 | no Cq | 113 |
| 82  | -     | -   | no Cq | 94  | no Cq | 80   | no Cq | 83  | no Cq | 73  |
| 84  | -     | -   | no Cq | 94  | no Cq | 83   | -     |
| 86  | -     | -   | no Cq | 99  | no Cq | 87   | no Cq | 116 | no Cq | 116 |
| 87  | -     | -   | no Cq | 102 | no Cq | 75   | no Cq | 114 | no Cq |
| 89  | -     | -   | no Cq | 81  | no Cq | 88   | no Cq | 132 | no Cq | 120 |
| 90  | -     | -   | no Cq | 70  | no Cq | 85   | no Cq | 119 | no Cq | 94  |
| 92  | -     | -   | no Cq | 75  | no Cq | 90   | no Cq | 120 | no Cq | 105 |
| 93  | -     | -   | no Cq | 98  | no Cq | 106  | no Cq | 135 | no Cq | 128 |
| 94  | -     | -   | no Cq | 93  | no Cq | 100  | no Cq | 145 | no Cq | 138 |
| 98  | -     | -   | no Cq | 66  | no Cq | 65   | no Cq | 130 | no Cq | 107 |
| 100 | -     | -   | no Cq | 74  | no Cq | 98   | no Cq | 120 | no Cq | 109 |
| 101 | -     | -   | no Cq | 71  | no Cq | 85   | no Cq | 105 | no Cq | 101 |
| 103 | -     | -   | no Cq | 71  | no Cq | 88   | no Cq | 106 | no Cq | 114 |
| 104 | -     | -   | no Cq | 85  | no Cq | 90   | no Cq | 103 | 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     |

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    |
|   |   |   | no Cq | no Cq | no Cq | no Cq | no Cq | no Cq | no Cq | no Cq | no Cq | no Cq |
|---|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 13 | - | - | 33.3 | 71 | 34.0 | 64 | 32.3 | 68 | 33.5 | 87 | - | - |
| 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 | no Cq | 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 |
| 88 | - | - | no Cq | 118 | no Cq | 66 | no Cq | 82 | 32.9 | 122 | no Cq | 120 |
| 96 | - | - | 36.0 | 108 | no Cq | 86 | no Cq | 88 | 32.5 | 86 | - | - |
| 99 | - | - | no Cq | 57 | 37.1 | 56 | no Cq | 61 | 36.5 | 64 | no Cq | 54 |
| 106 | - | - | no Cq | 59 | 37.2 | 96 | no Cq | 79 | no Cq | 92 | no Cq | 51 |
| 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**

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

Thereof constantly positive in cELISA

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 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 |