

Table S1. Primer and probe sets for the detection of BRD pathogens

Pathogens	5'>3' F	5'>3'R	5'>3' FAM
BPIV	TGTCTTCCACTAGATAGA	GCAATGATAACAGGACTA	ACAGCAATTGGATCAATA0[MGBEQ]
BVDV	GGGNAGTCGTCARTGGT	GTGCCCATGTACAGCAGAGWTTTT	CCAYGTGGACGAGGGCAYGC[TAM]
BCoV	GGACCCAAGTAGCGATGAG	GACCTTCCTGAGCCTTCAATA	ATTCCGACTAGGTTTCCGCCTGG[TAM]
BRSV	GCAATGCTGCAGGACTAGGTATAAT	ACACTGTAATTGATGACCCCATCT	ACCAAGACTTGTATGATGCTGCCAAAGCA[TAM]
BoHV1	CAATAACAGCGTAGACCTGGTC	GCTGTAGTCCCAAGCTTCCAC	TGCGGCCTCCGGGCTTACGTCT[TAM]
BAdV3	ATTACCAGCGTCAACCTCTAC	CCGCCGAGAGATAGTCATTAAT	TCCACTTTGGAAGCTATGCTCCGC[TAM]
<i>M. haemolytica</i>	ATTAGTGGGTTGTCCTGGTTAG	GCGTGATTTTCGGTTCAGTTG	CTGAACCAACACGAGTAGTCGCTGC[TAM]
<i>P. multocida</i>	GGGCTTGTCGGTAGTCTTT	CGGCAAATAACAATAAGCTGAGTA	CGGCGCAACTGATTGGACGTTATT[TAM]
<i>H. somni</i>	AAGGCCTTCGGGTTGTAAAG	CCGGTGCTTCTTCTGTGATTAT	CGGTGATGAGGAAGGCGATTAG[TAM]
<i>M. bovis</i>	TCAAGGAACCCACAGAT	AGGCAAAGTCATTTCTAGGTGCAA	TGGCAAACCTTACCTATCGGTGACCCT[TAM]