

Online Resource Table S7. Analytical sensitivity of the on-site secA LAMP assay. Three-fold dilutions of the BNp-infected grapevine material was diluted in healthy grapevine homogenate and tested with the secA LAMP assay tested; neg, negative.

Sample	D768/13 Refošk						D321/13 Savignon						D292/13 Modra Frankinja							
Cultivar	Refošk						Savignon						Modra Frankinja							
Detection method	LAMP			qPCR			LAMP			qPCR			LAMP			qPCR			LAM	
Fold dilution	Tpos	Mean Tpos	Tm	Mean Tm	Cq	Mean Cq	Tpos	Mean Tpos	Tm	Mean Tm	Cq	Mean Cq	Tpos	Mean Tpos	Tm	Mean Tm	Cq	Mean Cq	Tpos	Mean Tpos
10	17.7	16.6	85.5	85.5	30.1	30.4	15.0	13.7	85.5	85.5	32.7	32.7	19.1	20.4	85.6	85.5	32.5	32.4	17.0	15.3
	13.0		85.5		30.8		12.6		85.5		32.6		17.7		85.5		32.3		13.6	
	19.2		85.5		30.3		13.6		85.4		32.8		24.3		85.5		32.3		n.t.	
30	neg	22.3	/	85.3	32.2	32.3	15.7	14.5	85.4	85.4	36.0	35.0	16.8	14.7	85.5	85.4	34.2	34.0	neg	15.6
	29.6		85.4		32.2		14.8		85.4		34.8		11.1		85.5		33.8		15.7	
	15.1		85.2		32.6		13.1		85.4		34.1		16.2		85.4		33.9		15.5	
90	16.1	22.5	85.2	85.2	33.5	33.8	15.5	16.4	85.3	85.2	35.1	35.3	12.3	24.8	85.3	85.2	34.9	35.0	13.7	18.0
	28.8		85.2		34.0		18.8		85.2		35.1		22.0		85.2		35.6		24.9	
	neg		/		33.9		15.0		85.2		35.8		40.0		85.0		34.5		15.3	
270	neg	40.0	/	85.3	35.1	35.3	12.9	12.9	85.2	85.2	neg	36.6	15.4	15.4	85.2	85.2	36.4	36.0	neg	12.7
	40.0		85.3		35.2		neg		/		36.6		n.t.		n.t.		35.8		12.7	
	neg		/		35.6		neg		/		neg		neg		/		35.8		n.t.	
810	neg	neg	/	/	36.7	35.7	neg	neg	/	/	36.4	36.7	neg	neg	/	/	37.0	36.2	neg	neg
	neg		/		35.3		neg		/		neg		neg		/		36.1		neg	
	neg		/		35.2		neg		/		37.0		neg		/		35.4		neg	
2340	19.8	19.8	85.4	85.4	neg	36.0	neg	40.0	/	86.2	neg	36.0	neg	neg	/	/	neg	neg	neg	neg
	neg		/		35.8		neg		/		neg		neg		/		neg		neg	
	neg		/		36.2		40.0		86.2		36.0		neg		/		neg		neg	
7290	25.2	25.2	85.2	85.2	neg	36.5	37.3	37.3	87.1	87.1	neg	36.1	neg	neg	/	/	neg	neg	neg	neg
	neg		/		neg		neg		/		neg		neg		/		neg		neg	
	neg		/		36.5		neg		/		36.1		neg		/		neg		neg	
21870	neg	neg	/	/	neg	neg	neg	neg	/	/	neg	neg	neg	neg	/	/	neg	neg	neg	neg
	neg		/		neg		neg		/		neg		neg		/		neg		neg	
	neg		/		neg		neg		/		neg		neg		/		neg		neg	
65610	neg	neg	/	/	neg	neg	neg	neg	/	/	neg	neg	neg	neg	/	/	neg	neg	neg	neg
	neg		/		neg		neg		/		neg		neg		/		neg		neg	
	neg		/		neg		neg		/		neg		neg		/		neg		neg	
Healthy plants	neg		/		neg		neg	/		/	neg		neg	/	neg		neg		neg	neg
	n.t.		n.t.		n.t.		neg				neg		n.t.		n.t.		neg		n.t.	
	n.t.		n.t.		n.t.		neg				neg		n.t.		n.t.		neg		n.t.	
Non-template control	neg		/		neg		neg	/	/	/	neg		neg	/	neg		neg		neg	neg
	n.t.		n.t.		n.t.		n.t.				neg		n.t.		n.t.		neg		n.t.	
	n.t.		n.t.		n.t.		n.t.				n.t.		n.t.		n.t.		neg		n.t.	

. The homogenates were further used for DNA extraction and analysed using qPCR (Cq).n.t., not

D303/13 Chardonay				D314/13 Savignon					
IP		qPCR		LAMP		qPCR			
Tm	Mean Tm	Cq	Mean Cq	Tpos	Mean Tpos	Tm	Mean Tm	Cq	Mean Cq
85.5	85.5	33.2	33.5	13.3	12.2	85.5	85.5	28.6	28.6
85.5		34.0		12.2		85.5		28.6	
n.t.		33.3		11.2		85.5		28.7	
79.7	83.4	35.1	35.0	8.1	9.0	85.5	85.5	30.2	30.1
85.3		35.4		8.9		85.4		30.2	
85.2		34.5		10.1		85.3		29.9	
85.3	85.2	35.1	35.5	14.0	13.5	85.3	85.3	31.9	31.8
85.2		36.4		9.1		85.3		31.7	
85.2		34.9		17.3		85.3		31.7	
/	85.5	36.1	36.2	18.5	15.5	85.3	85.3	32.8	33.1
85.5		36.3		9.8		85.3		33.5	
n.t.		36.1		18.3		85.4		33.0	
/	/	neg	neg	18.3	17.5	85.7	85.7	34.5	34.3
/		neg		12.8		85.6		34.1	
/		neg		21.3		85.5		34.3	
/	/	neg	neg	34.7	37.7	85.5	85.5	35.9	36.1
/		neg		40.0		85.2		35.3	
/		neg		38.5		85.2		37.0	
/	/	neg	neg	21.7	24.4	85.2	85.2	neg	35.9
/		neg		17.7		85.2		neg	
/		neg		33.9		85.2		35.9	
/	/	neg	neg	18.3	18.8	85.2	85.2	36.3	36.3
/		neg		23.4		85.2		neg	
/		neg		14.6		85.3		neg	
/	/	neg	neg	neg	28.0	/	85.6	neg	neg
/		neg		neg		/		neg	
/		neg		28.0		85.6		neg	
/	/	neg	neg	neg	/	/	/	neg	neg
n.t.		neg		neg		/		neg	
n.t.		neg		neg		/		neg	
/	/	neg	neg	neg	/	/	/	neg	neg
n.t.		neg		neg		/		n.t.	
n.t.		neg		n.t.		n.t.		n.t.	