

Online Resource Table S4. Diagnostic sensitivity of the Bnp LAMP assay. Bnp DNA samples (D705/13, D407/13) were serially diluted in water or DNA extracted from healthy grapevine plants (Plant DNA) and tested with the LAMP and qPCR assays. Each dilution was tested in at least triplicate with each method, and in up to two LAMP runs (LAMP1, LAMP2). The whole experiment was repeated twice, with a new dilution series prepared each time with the same grapevine sample. Healthy plants, DNA from healthy grapevine plants used for the preparation of the dilutions; n.t., not tested; Undet., not detected in qPCR; neg, negative.

Fold dilution for sample D705/13, cultivar 'Malvazija'	Water						Plant DNA	
	qPCR		LAMP1		LAMP2		LAMP	
	Cq	Mean Cq	Tpos	Tm	Tpos	Tm	Tpos	Tm
10	26.5		5.0	85.2	5.0	85.5	5.0	85.6
	26.6		5.0	85.2	5.0	85.5	5.0	85.6
	26.5	26.5	5.0	85.2	5.0	85.5	5.0	85.5
	n.t.		5.0	85.3	n.t.		n.t.	
	n.t.		5.0	85.5	n.t.		n.t.	
30	28.1		5.0	85.2	5.0	85.4	6.0	85.4
	28.0		5.0	85.2	5.0	85.4	6.0	85.4
	28.0	28.0	5.0	85.2	5.0	85.4	6.0	85.4
	n.t.		5.0	85.4	n.t.		n.t.	
	n.t.		5.0	85.4	n.t.		n.t.	
90	29.5		6.0	85.2	6.0	85.4	6.8	85.3
	29.6		6.0	85.2	6.0	85.4	7.1	85.4
	29.8	29.6	6.0	85.1	6.0	85.3	6.0	85.3
	n.t.		5.0	85.3	n.t.		n.t.	
	n.t.		6.0	85.3	n.t.		n.t.	
270	31.4		8.0	85.3	6.9	85.4	7.9	85.3
	31.8		7.1	85.4	7.5	85.3	7.9	85.4
	31.5	31.5	8.5	85.3	6.6	85.3	9.5	85.4
	n.t.		n.t.		6.8	85.3	n.t.	
	n.t.		n.t.		6.7	85.3	n.t.	
810	32.7		9.0	85.2	10.7	85.3	10.7	85.6
	33.0		8.1	85.2	8.3	85.1	11.4	85.6
	33.0	32.9	9.0	85.2	neg	/	9.0	85.4
	n.t.		n.t.		11.7	84.7	n.t.	
	n.t.		n.t.		9.0	85.1	n.t.	
2430	34.9		8.6	85.2	19.5	85.1	10.7	85.4
	35.8		neg	/	12.4	85.1	13.0	85.4
	35.2	35.3	8.1	85.1	11.8	85.1	15.1	85.3
7290	36.0		11.2	85.1	9.6	85.3	13.3	85.2
	35.0		8.2	85.2	neg	/	neg	/
	37.7	36.2	9.3	85.0	neg	/	neg	/
21870	37.9		neg	/	neg	/	13.4	85.2
	Undet.		neg	/	neg	/	neg	/
	37.8	37.9	12.1	86.6	neg	/	12.1	85.4
65610	Undet.		n.t.		neg	/	neg	/
	Undet.		n.t.		9.6	85.1	neg	/
	38.1	38.1	n.t.		neg	/	neg	/
196830	37.9		n.t.		neg	/	n.t.	
	Undet.		n.t.		neg	/	n.t.	
	Undet.	37.9	n.t.		neg	/	n.t.	
Non-template control	neg		neg	/	neg	/	neg	/
	neg	neg	n.t.		n.t.		n.t.	

Fold dilution for sample D705/13, cultivar 'Malvazija'	Plant DNA			
	qPCR		LAMP	
	Cq	Mean Cq	Tpos	Tm
10	31.0		5.0	85.7
	31.0		6.0	85.7
	30.8	30.9	5.0	85.7
30	32.6		6.0	85.5
	32.5		6.0	85.5
	32.5	32.5	6.0	85.4
90	34.4		6.5	85.3
	34.4		6.0	85.3
	34.0	34.2	6.0	85.3
270	35.3		7.9	85.3
	35.7		7.7	85.3
	36.2	35.7	8.1	85.3
810	36.8		8.8	85.7
	36.1		9.1	85.6
	37.1		8.6	85.5
	37.0		11.4	85.5
	38.2	37.0	8.8	85.4
2340	37.3		9.5	85.3
	37.4		14.2	85.3
	neg		neg	/
	neg		8.7	85.2
	38.3	37.6	10.2	85.2
7290	37.1		11.8	85.6
	37.4		neg	/
	neg		11.5	85.5
	neg		9.8	85.5
	38.4	37.6	12.8	85.4
21870	neg		12.6	85.3
	neg		neg	/
	neg		20.3	85.2
	neg		neg	/
	neg	neg	12.7	85.2
65610	neg		neg	/
	neg		neg	/
	neg		neg	/
	neg		neg	/
	neg	neg	neg	/
196830	neg		13.3	85.3
	neg		neg	/
	neg		neg	/
	n.t.		neg	/
	n.t.		neg	/
Healthy plants	neg	neg	neg	/
	n.t.		neg	/
	n.t.		neg	/
Non-template control	neg	neg	neg	/
	n.t.		neg	/

Fold dilution for	Water			
sample D407/13,	qPCR		LAMP	
cultivar 'Modra frankinja'	Cq	Mean Cq	Tpos	Tm
10	27.5		6.0	85.6
	27.4		6.0	85.6
	27.6	27.5	6.0	85.6
30	29.3		7.9	85.5
	29.1		6.5	85.5
	29.1	29.2	7.6	85.7
90	30.8		9.1	85.5
	30.8		9.1	85.5
	30.7	30.8	9.6	85.5
270	33.0		11.4	85.5
	32.8		neg	/
	33.2	33.0	10.9	85.9
810	35.2		8.5	85.3
	34.3		9.0	85.3
	33.9	34.5	9.4	85.3
2430	38.2		26.1	85.2
	35.4		neg	/
	37.3	36.9	22.5	87.4
7290	Undet.		31.3	87.4
	Undet.		20.1	88.4
	36.8	36.8	neg	/
21870	38.9		neg	/
	Undet.		neg	/
	37.9	38.4	neg	/
65610	Undet.		neg	/
	Undet.		neg	/
	Undet.	neg	neg	/
Non-template control	neg		neg	/
	neg	neg	n.t.	

Fold dilution for	Plant DNA			
sample D407/13,	qPCR		LAMP	
cultivar 'Modra frankinja'	Cq	Mean Cq	Tpos	Tm
10	31.8		6.0	85.6
	31.9		6.0	85.5
	31.6	31.8	6.4	85.5
30	33.1		7.2	85.5
	33.0		8.4	85.4
	33.5	33.2	8.6	85.3
90	34.3		10.8	85.3
	36.5		8.5	85.3
	35.5	35.4	10.2	85.2
270	36.8		12.9	85.3
	36.2		13.7	85.3
	36.3	36.4	9.0	85.3
810	37.7		12.0	85.6
	37.5		13.3	85.6
	37.4		12.0	85.5
	36.8		17.5	85.4
	neg	37.3	11.7	85.3
2430	37.2		12.5	85.3
	neg		neg	/
	37.8		neg	/
	neg		neg	/
	37.9	37.6	30.1	85.1
7290	neg		neg	/
	neg		17.1	85.6
	neg		neg	/
	neg		neg	/
	38.0	38.0	neg	/
21870	neg		neg	/
	neg		neg	/
	neg		neg	/
	neg		neg	/
	neg		neg	/
65610	neg		neg	/
	neg		neg	/
	neg		neg	/
	n.t.		neg	/
	n.t.		neg	/
196830	neg	neg	neg	/
	n.t.		neg	/
	n.t.		neg	/
Healthy plants	neg	neg	neg	/
	n.t.		neg	/
	n.t.		neg	/
Non-template control	neg		neg	/
	n.t.		neg	/