

Supplementary Table S1 – qPCR – lime experiments (as explained in section 2.2) - **MVA** – Of (top soil) of soil samples 277, 295, 30, 171, 141, 89

	277 - Of		295 - Of		30 - Of		171 - Of		141 - Of		89 - Of	
	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies
Slaked lime	28,475	4,01E+03	29,57	1,99E+03	31,265	1,12E+03	26,4	9,58E+03	29,005	6,60E+03	29,5	1,58E+03
Lime milk	30,835	1,34E+03	31,425	3,83E+03	31,25	1,72E+03	31,035	2,28E+03	31,625	1,09E+03	33,775	9,50E+02
Quicklime	30,22	4,93E+02	29,46	1,01E+03	31,755	1,92E+02	29,705	1,34E+03	31,75	3,40E+02	31,585	2,37E+02

	277 - Of – Contr.		295 - Of – Contr.		30 - Of – Contr.		171 - Of – Contr.		141 - Of – Contr.		89 - Of – Contr.		MVA + PBS	
	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies
Slaked lime – experim.	23,9	3,54E+04	23,05	5,95E+04	23,4	5,17E+04	25,99	1,18E+04	24,44	2,55E+04	24,54	2,41E+04	23,275	5,78E+04
Lime milk – experim.	28,58	5,01E+03	24,75	4,15E+04	26,07	2,59E+04	24,01	6,05E+04	27,83	9,00E+03	23,64	7,28E+04	21,7	2,42E+05
Quicklime – experim.	23,29	4,42E+04	22,79	6,12E+04	22,32	8,94E+04	24,3	2,53E+04	24,47	2,32E+04	24,46	2,23E+04	23,125	5,45E+04

Supplementary Table S2 – qPCR – lime experiments (as explained in section 2.2) - **MVA** – A (mineral soil) of soil samples 277, 295, 30, 171, 141, 89

	277 - A		295 - A		30 - A		171 - A		141 - A		89 - A	
	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies
Slaked lime	31,585	3,31E+02	29,555	1,27E+03	29,515	1,17E+03	29,31	1,33E+03	29,01	1,70E+03	30,93	8,91E+02
Lime milk	31,755	1,16E+03	32,73	9,96E+02	32,095	1,79E+03	33,335	5,05E+02	33,205	5,26E+02	31,11	1,63E+03
Quicklime	30,55	3,97E+02	30,62	5,60E+02	30,085	6,46E+02	31,865	2,60E+02	31,32	5,35E+02	30,48	4,27E+02

	277 - A – Contr.		295 - A – Contr.		30 - A – Contr.		171 - A – Contr.		141 - A – Contr.		89 - A – Contr.		MVA + PBS	
	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies
Slaked lime – experim.	24,095	4,65E+04	27,7	4,46E+03	28,47	9,33E+02	26,165	5,14E+03	34,38	3,42E+03	38,53	3,31E+04	22,86	3,78E+04
Lime milk – experim.	26,22	2,34E+04	26,69	9,58E+03	27,62	1,35E+04	28,275	8,05E+03	28,25	1,02E+04	38,495	1,47E+03	22,55	1,67E+05
Quicklime – experim.	23,165	4,87E+04	38,9	1,60E+03	31,825	2,23E+02	26,535	6,02E+03	28,185	4,87E+03	29,655	2,55E+03	23,275	4,71E+04

Supplementary Table S3 – qPCR – **ASFV** – lime experiments (as explained in section 2.2) - Of and A (top soil and mineral soil) of soil samples 277, 295, 30, 171, 141, 89

	277 - Of		295 - Of		30 - Of		171 - Of		141 - Of		89 - Of		ASFV + PBS	
	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies
Slaked lime	25,42	1,44E+02	23,675	4,62E+02	24,705	2,41E+02	24,355	2,93E+02	23,845	4,24E+02	25,745	1,26E+02	-	-
Lime milk	24,3	3,14E+02	23,29	6,05E+02	23,125	6,75E+02	23,27	6,18E+02	24,12	3,94E+02	24,61	2,75E+02	-	-
Quicklime	25,865	1,05E+02	25,01	1,89E+02	25,91	1,04E+02	25,435	1,41E+02	24,665	1,66E+02	25,83	1,08E+02	-	-
Control	24,12	3,42E+02	23,12	6,92E+02	22,82	8,27E+02	24,11	3,45E+02	23,72	4,53E+02	23,06	7,05E+02	22,9	7,88E+02

	277 - A		295 - A		30 - A		171 - A		141 - A		89 - A		ASFV + PBS	
	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies
Slaked lime	27,955	3,53E+01	27,74	3,42E+01	27,91	3,97E+01	30,195	6,50E+00	29,175	1,64E+01	29,605	1,13E+01	-	-
Lime milk	27,445	8,28E+01	26,6	9,50E+01	26,06	1,21E+02	30,065	9,30E+00	27,055	6,23E+01	27,61	4,67E+01	-	-
Quicklime	28,715	2,99E+01	27,435	4,09E+01	27,23	5,85E+01	30,145	1,02E+01	29,005	2,21E+01	29,4	1,68E+01	-	-
Control	23,62	5,18E+02	24,69	2,58E+02	24,01	4,02E+02	26,33	8,62E+01	25,16	1,88E+02	25,5	1,49E+02	23,08	8,32E+02

Supplemenatry Table S4 – qPCR – lime/water-ratio (as explained in section 2.3) - **MVA** – Of and A (top soil and mineral soil) of soil sample 277

	0		1:2		1:3		1:5		1:9		MVA + PBS (control)	
	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies
Slaked lime - Of	35,99	9,96E+00	34,79	3,14E+01	32,525	9,84E+01	30,495	4,09E+02	31,1	2,96E+02	25,855	8,58E+03
Quicklime-Of	35,64	3,05E+01	33,575	4,57E+01	30,31	6,89E+02	29,015	1,35E+03	31,97	2,41E+02	24,14	5,01E+04

	0		1:2		1:3		1:5		1:9		MVA + PBS (control)	
	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies	cT	copies
Slaked lime - A	32,825	1,76E+02	33,22	1,38E+02	35,215	2,89E+01	33,665	4,75E+01	32,39	1,90E+02	26,47	5,61E+03
Quicklime - A	32,35	1,09E+02	33,3	1,68E+02	32,915	2,48E+02	30,62	4,65E+02	31,795	1,78E+02	25,935	1,46E+04

Supplementary Table S5– Final concentrations and added amount of quick lime and slaked lime in experimental layout for lime experiments (see 2.2 in manuscript)

Disinfectant	Virus (mL)	FCS (mL)	Amount of disinfectant added (g)	Concentration during experiment
Quick lime/ Slaked lime (powder)	3	4	0.07	1%
			0.35	5%
			0.7	10%

Supplementary Table S6 – Stock dilution and final concentrations of lime milk in experimental layout for lime experiments (see 2.2 in manuscript); each stock was freshly prepared with WSH (water with standardized hardness level) directly before each experiment

Disinfectant	Virus (mL)	FCS (mL)	Stock concentration (x3.4 of desired concentration)	Added volume of stock (mL)	Concentration during experiment
Lime milk (solution)	3	4	3,4%	2.9	1%
			17%	2.9	5%
			34%	2.9	10%