

Supplemental Table S1: Viral genome loads (Cq-values) of different capripox virus strains in different media after thermal treatment.

LSDV vaccine strain "Neethling"				LSDV field strain "Macedonia2016"				GTPV field strain "V/103"				SPPV vaccine strain "V/104"			
Cq-value				Cq-value				Cq-value				Cq-value			
#	PBS	ZB	FCS	#	PBS	ZB	FCS	#	PBS	ZB	FCS	#	PBS	ZB	FCS
120 min 4°C				120 min 4°C				120 min 4°C				120 min 4°C			
Start	20.5	20.5	20.5	Start	21.0	20.7	20.4	Start	23.1	23.0	22.9	Start	23.7	23.2	23.2
#1	20.2	20.3	19.7	#1	20.0	19.7	18.2	#1	22.1	21.1	21.0	#1	25.0	24.8	23.1
#2	22.4	21.7	21.4	#2	21.1	21.8	20.7	#2	22.4	22.7	22.0	#2	25.9	25.3	24.3
#3	20.1	20.1	20.1	#3	19.5	19.5	19.3	#3	22.5	22.8	22.9	#3	26.0	25.8	24.4
5 min 56°C				5 min 56°C				5 min 56°C				5 min 56°C			
Start	20.5	20.1	20.2	Start	20.9	20.4	20.2	Start	23.1	22.5	22.6	Start	24.0	23.6	23.3
#1	20.3	20.6	20.2	#1	20.2	20.8	19.1	#1	22.4	22.1	21.2	#1	23.1	23.3	21.8
#2	22.4	23.1	22.0	#2	20.5	21.3	21.9	#2	23.2	22.7	22.5	#2	26.3	26.1	23.5
#3	20.3	21.0	20.0	#3	20.6	22.0	22.1	#3	23.0	22.7	22.1	#3	26.4	25.1	24.3
10 min 56°C				10 min 56°C				10 min 56°C				10 min 56°C			
Start	20.5	20.5	20.9	Start	20.7	20.3	21.1	Start	23.1	22.7	23.4	Start	23.8	23.4	23.5
#1	21.3	22.1	23.5	#1	24.1	25.7	22.7	#1	23.8	22.6	21.0	#1	26.1	26.2	22.5
#2	21.5	20.5	22.1	#2	22.5	22.3	22.3	#2	22.7	23.0	24.3	#2	26.3	25.5	24.2
#3	20.9	21.8	21.5	#3	22.7	22.5	20.1	#3	22.6	22.3	22.4	#3	22.4	22.4	23.7
30 min 56°C				30 min 56°C				30 min 56°C				30 min 56°C			
Start	21.1	19.4	20.2	Start	20.6	20.7	22.1	Start	23.2	23.3	23.7	Start	23.5	23.8	24.2
#1	27.4	27.6	28.3	#1	28.6	27.7	29.2	#1	28.5	27.3	28.7	#1	27.2	27.0	27.6
#2	31.1	30.8	31.1	#2	31.4	31.3	31.4	#2	30.8	29.6	30.0	#2	29.4	29.1	29.1
#3	33.6	33.2	35.1	#3	34.8	33.8	34.7	#3	31.1	32.2	31.9	#3	31.3	31.4	31.1
60 min 56°C				60 min 56°C				60 min 56°C				60 min 56°C			
Start	20.3	20.2	21.9	Start	20.7	20.6	22.4	Start	23.5	23.3	24.9	Start	23.5	23.4	24.1
#1	28.0	28.0	27.6	#1	28.5	28.3	29.5	#1	28.6	27.9	28.5	#1	27.4	27.2	27.8
#2	31.2	30.5	30.6	#2	31.9	31.3	31.4	#2	31.1	30.0	29.5	#2	28.9	28.1	28.5
#3	34.4	33.0	33.7	#3	35.5	33.7	35.0	#3	34.1	32.9	32.0	#3	31.3	31.8	31.6
120 min 56°C				120 min 56°C				120 min 56°C				120 min 56°C			
Start	20.8	20.5	21.5	Start	21.1	21.2	23.0	Start	23.2	23.4	25.4	Start	23.6	23.5	24.6
#1	28.0	28.0	28.4	#1	28.7	28.3	29.4	#1	29.1	28.1	28.6	#1	27.2	27.3	27.7
#2	31.0	30.3	30.6	#2	31.8	30.2	31.6	#2	30.2	30.0	29.7	#2	28.8	28.1	28.5
#3	34.1	33.1	33.3	#3	35.3	33.7	35.8	#3	33.7	31.6	32.0	#3	31.3	31.4	31.4
5 min 60°C				5 min 60°C				5 min 60°C				5 min 60°C			
Start	20.4	19.9	20.3	Start	20.8	20.4	20.5	Start	22.0	22.9	23.3	Start	23.5	23.4	23.5
#1	27.4	27.4	28.3	#1	28.3	28.8	29.4	#1	28.1	28.0	28.4	#1	27.5	27.1	27.5
#2	26.2	30.4	28.0	#2	31.4	31.0	28.9	#2	30.6	29.7	26.1	#2	29.3	28.9	28.3
#3	19.3	22.1	20.1	#3	25.1	34.3	17.8	#3	33.6	32.0	22.7	#3	31.7	31.2	31.5
10 min 60°C				10 min 60°C				10 min 60°C				10 min 60°C			
Start	20.5	19.9	20.9	Start	20.6	20.2	21.3	Start	23.1	22.6	23.5	Start	23.4	23.2	23.6
#1	26.9	27.5	28.3	#1	28.7	28.5	30.2	#1	28.3	27.5	28.8	#1	27.0	27.1	27.8
#2	30.3	30.8	30.1	#2	31.8	31.0	31.8	#2	31.1	29.2	29.4	#2	28.3	27.8	28.4
#3	34.6	33.9	33.5	#3	35.4	33.6	34.1	#3	33.2	32.3	32.1	#3	31.6	31.4	31.7

displays cell culture passage

Supplemental Table S2: Viral genome loads (Cq-values) of the used PCPV isolate in different media after thermal treatment.

Parapox bovis 2 (PCPV)							
Cq-value				Cq-value			
#	PBS	ZB	FCS	#	PBS	ZB	FCS
120 min 4°C							
Start	25.2	25.2	25.0				
#1	19.9	20.4	20.3				
#2	20.7	21.9	21.8				
#3	21.7	21.8	21.7				
5 min 56°C				5 min 60°C			
Start	25.3	25.1	24.1	Start	25.3	24.6	24.3
#1	19.7	20.4	20.4	#1	20.6	21.5	19.9
#2	20.9	21.1	20.3	#2	21.4	21.2	21.3
#3	21.5	21.3	21.3	#3	21.5	20.8	20.8
10 min 56°C				10 min 60°C			
Start	25.0	24.5	24.5	Start	25.2	24.8	24.5
#1	19.5	19.9	19.6	#1	24.1	24.9	24.7
#2	20.8	20.6	21.6	#2	21.1	21.8	21.6
#3	21.2	21.1	21.6	#3	20.7	20.9	21.5
30 min 56°C				30 min 60°C			
Start	25.1	24.6	25.2	Start	24.7	23.7	24.7
#1	23.0	23.9	21.6	#1	29.2	30.1	29.2
#2	21.2	21.5	21.0	#2	32.2	32.3	33.0
#3	21.9	21.4	21.3	#3	35.4	34.6	35.5
60 min 56°C				60 min 60°C			
Start	25.3	24.6	25.4	Start	24.6	24.1	25.4
#1	28.0	27.6	25.8	#1	29.1	29.7	29.0
#2	19.9	19.2	20.3	#2	32.7	32.8	32.9
#3	21.4	21.1	20.8	#3	37.5	34.8	35.1
120 min 56°C				120 min 60°C			
Start	25.4	24.9	26.4	Start	24.6	24.2	25.7
#1	30.5	30.9	31.3	#1	29.2	28.4	29.4
#2	32.6	33.4	26.0	#2	32.2	32.3	32.8
#3	35.7	36.8	20.5	#3	34.9	34.1	no Cq
180 min 56°C				180 min 60°C			
Start	24.9	24.5	26.3	Start	24.6	24.5	26.1
#1	29.4	29.4	30.3	#1	29.1	29.5	29.3
#2	32.3	31.7	32.3	#2	32.3	32.1	32.8
#3	35.8	35.2	35.1	#3	35.0	34.6	36.3
240 min 56°C				240 min 60°C			
Start	24.6	25.1	26.5	Start	24.4	24.7	26.1
#1	29.2	29.9	30.0	#1	29.1	30.0	29.6
#2	32.4	31.3	32.7	#2	32.4	32.5	33.1
#3	37.1	34.7	36.3	#3	36.2	37.0	36.3

displays cell culture passage

Supplemental Table S3: Uninfected cell culture served as negative control during passaging of heat-treated virus suspensions. Both the pan-capripox and the Parapox-B2L real-time qPCR assays were used to detect possible contaminations during passaging or molecular analyses of samples. Internal control DNA (EGFP) served as control for successful DNA extraction.

Cell culture control			
Cq value			
pan Capri-p32-Mix1-Taq-FAM	#1	#2	#3
MDBK control 1	no Cq	no Cq	no Cq
MDBK control 2	no Cq	no Cq	no Cq
MDBK control 3	no Cq	no Cq	no Cq
EGFP-Mix1(5)-HEX (capripox)	#1	#2	#3
MDBK control 1	27.9	26.5	27.9
MDBK control 2	28.0	26.6	27.8
MDBK control 3	27.8	27.0	27.7
Parapox-B2L-Mix-MGB-FAM	#1	#2	#3
MDBK control 1	no Cq	no Cq	no Cq
MDBK control 2	no Cq	no Cq	no Cq
MDBK control 3	no Cq	no Cq	no Cq
EGFP-Mix1(5)-HEX (parapox)	#1	#2	#3
MDBK control 1	26.4	25.8	26.3
MDBK control 2	26.1	24.9	26.2
MDBK control 3	26.5	25.2	26.3
pan Capri-p32-Mix1-Taq-FAM	#1	#2	#3
SFT-R control 1	no Cq	no Cq	no Cq
SFT-R control 2	no Cq	no Cq	no Cq
SFT-R control 3	no Cq	no Cq	no Cq
EGFP-Mix1(5)-HEX (capripox)	#1	#2	#3
SFT-R control 1	27.7	27.1	27.6
SFT-R control 2	28.0	27.1	27.7
SFT-R control 3	28.0	27.3	27.9
Parapox-B2L-Mix-MGB-FAM	#1	#2	#3
SFT-R control 1	no Cq	no Cq	no Cq
SFT-R control 2	no Cq	no Cq	no Cq
SFT-R control 3	no Cq	no Cq	no Cq
EGFP-Mix1(5)-HEX (parapox)	#1	#2	#3
SFT-R control 1	26.5	25.7	26.1
SFT-R control 2	26.3	26.2	26.1
SFT-R control 3	26.5	25.8	26.1

displays cell culture passage