

Supplemental Table S1. Pan Capripox real-time qPCR results of different sample matrices after inoculation with SPPV-“India/2013/Surankote” via different inoculation routes. The genome copy numbers per μl template are presented. For calculation of the genome copy number per ml sample material, the listed genome copies must be multiplied by a factor of 400.

SPPV- “India/2013/Surankote”		Genome copies/ μl template at different days post inoculation									27*/ 28dpi
Animal	Matrix	0dpi	3dpi	5dpi	7dpi	10dpi	12dpi	14dpi	17dpi	21dpi	
IND-IV-09	EDTA blood	no Cq	4,8E+00	1,3E+01	3,2E+01	2,0E+02	2,2E+02	7,3E+00	-	-	-
	serum	no Cq	4,3E-01	no Cq	no Cq	1,2E+00	3,6E+00	2,6E+00	-	-	-
	nasal swab	no Cq	no Cq	no Cq	1,6E+03	1,0E+03	3,1E+03	2,0E+04	-	-	-
	oral swab	no Cq	no Cq	no Cq	7,0E+00	1,1E+01	3,0E+01	1,1E+02	-	-	-
IND-IV-10	EDTA blood	no Cq	1,1E+00	1,9E+00	8,8E+01	7,4E+01	-	-	-	-	-
	serum	no Cq	no Cq	no Cq	no Cq	8,3E-01	-	-	-	-	-
	nasal swab	no Cq	no Cq	1,8E+00	8,2E+01	2,5E+05	-	-	-	-	-
	oral swab	no Cq	no Cq	no Cq	1,8E+00	2,3E+01	-	-	-	-	-
IND-IV-11	EDTA blood	no Cq	no Cq	2,7E+00	-	-	-	-	-	-	-
	serum	no Cq	no Cq	no Cq	-	-	-	-	-	-	-
	nasal swab	no Cq	no Cq	1,4E+00	1,2E+03	-	-	-	-	-	-
	oral swab	no Cq	no Cq	5,5E+00	no Cq	-	-	-	-	-	-
IND-IN-12	EDTA blood	no Cq	no Cq	8,1E-01	1,6E+01	4,7E+01	1,2E+01	9,5E+00	-	-	-
	serum	no Cq	no Cq	no Cq	no Cq	2,5E+00	no Cq	5,4E-01	-	-	-
	nasal swab	no Cq	6,3E+01	3,9E+05	4,3E+04	4,8E+05	4,8E+05	7,7E+04	-	-	-
	oral swab	no Cq	no Cq	1,6E+01	1,2E+02	5,3E+02	6,0E+03	2,7E+02	-	-	-
IND-IN-13	EDTA blood	no Cq	no Cq	1,3E+01	3,1E+01	6,4E+02	-	-	-	-	-
	serum	no Cq	no Cq	6,9E-01	no Cq	1,7E+01	-	-	-	-	-
	nasal swab	no Cq	9,8E+02	3,6E+03	1,1E+05	7,5E+06	-	-	-	-	-
	oral swab	no Cq	no Cq	9,3E+00	4,6E+02	1,0E+03	-	-	-	-	-
IND-IN-14	EDTA blood	no Cq	no Cq	no Cq	9,6E-01	5,8E-01	1,8E+00	no Cq	no Cq	no Cq	no Cq
	serum	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq
	nasal swab	no Cq	1,0E+03	2,1E+02	8,2E+04	9,4E+05	5,2E+04	3,3E+03	1,5E+05	7,7E+04	1,2E+05
	oral swab	no Cq	no Cq	3,8E+00	7,7E+01	2,9E+01	3,2E+02	2,8E+02	6,3E+01	3,0E+02	6,5E+01
IND-IC-15*	EDTA blood	no Cq	no Cq	no Cq	no Cq	no Cq	5,6E-01	no Cq	no Cq	1,1E+02	7,0E+01
	serum	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	1,0E+00	3,5E+00
	nasal swab	no Cq	no Cq	no Cq	no Cq	4,3E+00	4,2E+01	5,4E+00	2,6E+01	6,3E+03	7,4E+03
	oral swab	no Cq	no Cq	no Cq	no Cq	2,4E+00	3,3E+00	3,1E+00	1,4E+00	1,3E+00	7,0E+03
IND-IC-16	EDTA blood	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq
	serum	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq
	nasal swab	no Cq	no Cq	6,1E-01	5,0E+00	2,4E+00	9,5E+01	5,0E+01	2,9E+00	1,1E+00	no Cq
	oral swab	no Cq	no Cq	no Cq	no Cq	no Cq	7,4E+00	1,5E+00	2,3E+00	1,1E+01	no Cq

Supplemental Table S2. Pan Capripox real-time qPCR results of different sample matrices after inoculation with SPPV-“Egypt/2018” via different inoculation routes. The genome copy numbers per μl template are presented. For calculation of the genome copy number per ml sample material, the listed genome copies must be multiplied by a factor of 400.

SPPV-“Egypt/2018”		Genome copies/ μl template at different days post inoculation									
Animal	Matrix	0dpi	3dpi	5dpi	7dpi	10dpi	12dpi	14dpi	16*/17dpi	21dpi	27*/28dpi
EG-IV-01	EDTA blood	no Cq	no Cq	7,8E-01	5,6E-01	no Cq	1,4E+00	8,7E-01	no Cq	6,9E-01	no Cq
	serum	no Cq	no Cq	no Cq	no Cq	2,1E+00	7,7E-01	2,7E+00	no Cq	no Cq	no Cq
	nasal swab	no Cq	no Cq	no Cq	5,3E+00	1,3E+05	1,5E+05	3,3E+04	4,8E+02	1,0E+03	1,6E+02
	oral swab	no Cq	no Cq	no Cq	no Cq	1,1E+01	9,6E+01	2,3E+02	1,1E+02	4,0E+01	2,0E+00
EG-IV-02	EDTA blood	no Cq	no Cq	2,4E+01	7,1E+01	1,3E+02	1,2E+02	4,7E+02	-	-	-
	serum	no Cq	no Cq	1,5E+00	8,7E-01	5,1E+00	3,8E+00	1,6E+02	-	-	-
	nasal swab	no Cq	1,4E+01	4,1E+01	6,8E+01	6,2E+05	1,1E+05	1,5E+05	-	-	-
	oral swab	no Cq	no Cq	no Cq	1,3E+01	1,5E+02	1,9E+03	4,3E+02	-	-	-
EG-IV-03	EDTA blood	no Cq	2,8E+01	5,3E+00	5,2E+00	1,7E+00	no Cq	2,7E+00	no Cq	no Cq	no Cq
	serum	no Cq	3,2E+01	no Cq	no Cq	6,3E-01	1,2E+00	no Cq	no Cq	no Cq	no Cq
	nasal swab	no Cq	no Cq	no Cq	2,2E+01	5,7E+04	2,5E+04	2,0E+03	1,3E+02	1,0E+02	1,2E+02
	oral swab	no Cq	no Cq	no Cq	4,9E+00	1,2E+01	1,2E+02	3,8E+02	8,9E+01	1,6E+01	1,0E+00
EG-IN-04*	EDTA blood	no Cq	no Cq	7,9E-01	3,4E+00	1,1E+01	1,3E+00	no Cq	6,7E-01	-	-
	serum	no Cq	no Cq	no Cq	no Cq	5,1E-01	1,3E+00	no Cq	no Cq	-	-
	nasal swab	no Cq	6,1E+02	1,2E+02	5,6E+03	5,8E+05	2,1E+05	7,7E+05	6,0E+04	-	-
	oral swab	no Cq	no Cq	2,7E+00	2,2E+02	1,0E+03	1,8E+03	6,1E+02	5,7E+01	-	-
EG-IN-05*	EDTA blood	no Cq	no Cq	no Cq	no Cq	2,3E+00	no Cq	no Cq	2,2E-01	-	-
	serum	no Cq	no Cq	no Cq	no Cq	4,6E-01	1,1E+00	no Cq	no Cq	-	-
	nasal swab	no Cq	2,0E+02	2,3E+04	2,2E+04	3,1E+05	1,1E+06	2,7E+05	8,0E+05	-	-
	oral swab	no Cq	no Cq	1,9E+00	1,5E+01	1,1E+02	4,7E+02	2,8E+02	1,6E+02	-	-
EG-IN-06	EDTA blood	no Cq	no Cq	8,8E+00	7,3E+00	1,0E+01	1,8E+00	1,8E+00	-	-	-
	serum	no Cq	no Cq	no Cq	no Cq	1,8E+00	1,7E+00	4,6E-01	-	-	-
	nasal swab	no Cq	5,1E+00	5,8E+04	2,9E+05	1,0E+06	7,4E+05	2,2E+05	-	-	-
	oral swab	no Cq	no Cq	1,7E+01	1,4E+02	3,2E+02	3,4E+03	9,5E+02	-	-	-
EG-IC-07*	EDTA blood	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	1,5E+00	3,5E+02	2,4E+01
	serum	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	4,4E+00	3,9E+00
	nasal swab	no Cq	no Cq	no Cq	1,3E+00	5,2E+00	3,9E+01	1,1E+01	6,3E+01	3,1E+05	8,9E+04
	oral swab	no Cq	no Cq	no Cq	no Cq	7,2E-01	1,1E+00	4,0E+00	2,0E+01	4,3E+01	6,4E+03
EG-IC-08	EDTA blood	no Cq	no Cq	no Cq	no Cq	8,4E+01	5,1E+01	3,2E+02	-	-	-
	serum	no Cq	no Cq	no Cq	no Cq	2,4E+00	no Cq	5,0E+00	-	-	-
	nasal swab	no Cq	no Cq	no Cq	no Cq	4,8E+01	1,4E+02	8,3E+05	-	-	-
	oral swab	no Cq	no Cq	no Cq	no Cq	no Cq	3,8E+00	2,5E+02	-	-	-

Supplemental Table S3. Pan Capripox real-time qPCR results of different tissue samples of sheep after inoculation with SPPV-“India/2013/Surankote” via different inoculation routes. The genome copy numbers per µl template are presented. For calculation of the genome copy number per g tissue material, the listed genome copies must be multiplied by a factor of 4000.

SPPV- "India/2013/Surankote"		Genome copies/µl template						
Organ Sample	Intravenously			Intranasally			In-Contact	
	IND-IV-09	IND-IV-10	IND-IV-11	IND-IN-12	IND-IN-13	IND-IN-14	IND-IC-15	IND-IC-16
cervical lymph node	5,0E+01	1,3E+01	2,0E+01	4,0E+00	1,5E+03	no Cq	7,6E+01	no Cq
mediastinal lymph node	no Cq	1,3E+01	5,0E+01	no Cq	no Cq	no Cq	no Cq	no Cq
mesenterial lymph node	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	2,6E+00	no Cq
liver	no Cq	no Cq	6,8E+00	no Cq	1,4E+00	no Cq	2,1E+00	no Cq
spleen	no Cq	no Cq	1,4E+00	no Cq	5,6E+00	no Cq	no Cq	no Cq
lung	5,2E+00	8,3E+02	1,2E+04	no Cq	1,2E+01	no Cq	9,5E-01	no Cq
Additional Samples								
coagulated heart blood			1,4E+02					
lung fluid			3,7E+01					
Location of Skin Sample								
breast		1,4E+02			2,6E+02			
		1,2E+05			1,4E+02			
		2,1E+02			1,0E+04			
		6,2E+04			3,0E+02			
axilla	8,5E+05	2,9E+02	3,7E+04	2,1E+00	5,5E+02		1,5E+03	
	1,2E+02	2,8E+03	4,0E+02	1,2E+00	6,1E+03		8,9E+03	
	5,9E+02	6,3E+01	7,3E+01	1,4E+00	5,0E+03		3,8E+03	
	1,6E+02	4,4E+04	5,4E+03	7,8E-01	8,1E+03		3,5E+02	
back					8,8E+03			
					1,3E+03			
					4,8E+05			
					6,6E+05			
hind leg		1,5E+01			3,5E+04		4,1E+04	
		3,0E+01			2,3E+05		1,0E+05	
		7,2E+01			2,5E+05		5,8E+04	
		2,5E+01			3,0E+05		1,3E+05	
tail							1,2E+05	
scrotum		7,9E+04			1,6E+03		4,1E+04	
					4,3E+02		1,0E+05	
prepuce		2,4E+05			4,1E+05		1,7E+05	
		2,7E+05					8,0E+05	
pox-like lesion lung	2,1E+00						2,2E+04	
	2,5E+00						7,5E+00	

Supplemental Table S4. Pan Capripox real-time qPCR results of different tissue samples of sheep after inoculation with SPPV-“Egypt/2018” via different inoculation routes. The genome copy numbers per µl template are presented. For calculation of the genome copy number per g tissue material, the listed genome copies must be multiplied by a factor of 4000.

SPPV-"Egypt/2018"		Genome copies/µl template						
Organ Sample	Intravenously			Intranasally			In-Contact	
	EG-IV-01	EG-IV-02	EG-IV-03	EG-IN-04	EG-IN-05	EG-IN-06	EG-IC-07	EG-IC-08
cervical lymph node	no Cq	2,54E+01	no Cq	2,30E+01	no Cq	no Cq	7,25E+02	2,19E+02
mediastinal lymph node	1,42E+00	no Cq	no Cq	7,71E-01	no Cq	no Cq	1,10E+01	3,31E-01
mesenterial lymph node	no Cq	1,05E+00	no Cq	no Cq	2,26E+00	no Cq	6,76E-01	no Cq
liver	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq	no Cq
spleen	6,18E-01	2,63E+01	6,60E-01	1,07E+00	no Cq	4,20E-01	2,37E-01	1,03E+00
lung	no Cq	7,36E+01	7,14E-01	7,57E+00	1,10E+01	5,50E+00	2,92E+00	8,89E+00
Additional Samples								
brain								no Cq
								no Cq
								no Cq
nasal septum				3,55E+04	3,51E+02			
Location of Skin Sample								
ear					7,94E+05			
					3,02E+06			
					1,18E+06			
foreleg							3,13E+05	
							7,05E+04	
axilla		1,90E+04						6,32E+03
		4,15E+04						1,66E+04
		2,11E+04						2,70E+02
		1,84E+05						
hind leg							9,98E+04	
tail							3,15E+05	
							1,65E+05	
							7,73E+04	
prepuce		1,03E+06		1,73E+04			6,05E+04	2,79E+05
		2,98E+06		8,67E+04			9,42E+05	
pox-like lesion lung				1,06E+03	1,44E+01			
				1,26E+03				
				4,75E+02				
healed skin lesion	3,47E+02		8,02E+03		5,30E+03			
	4,22E+02		9,70E+04					
	2,45E+01		3,62E+03					
	2,81E+02		7,70E+01					
	1,72E+03							
scab of skin lesion			5,47E+06					
			1,67E+06					
			1,27E+06					
			3,70E+05					
			4,48E+06					