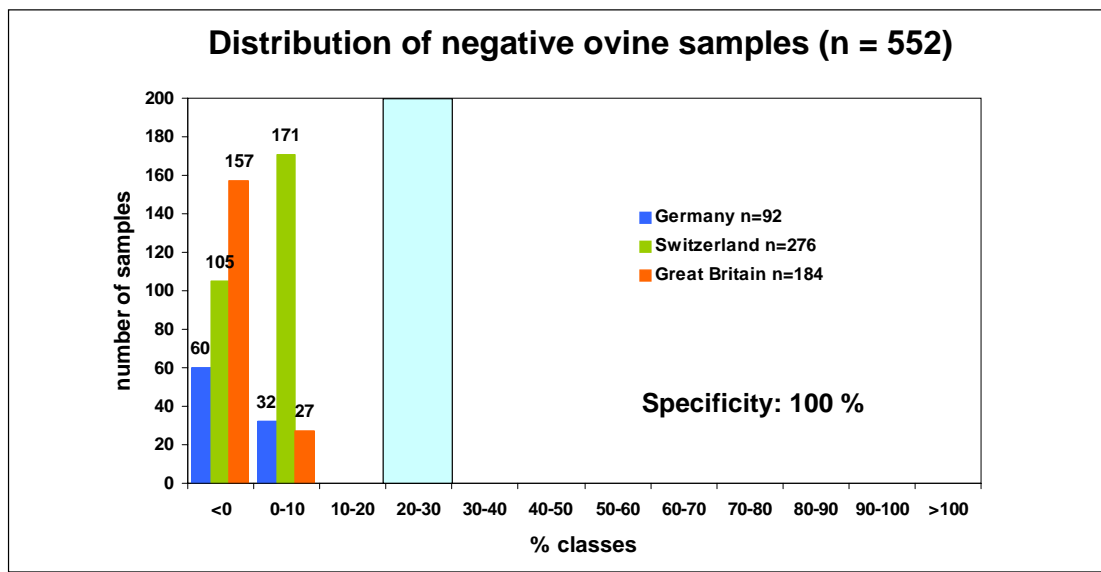
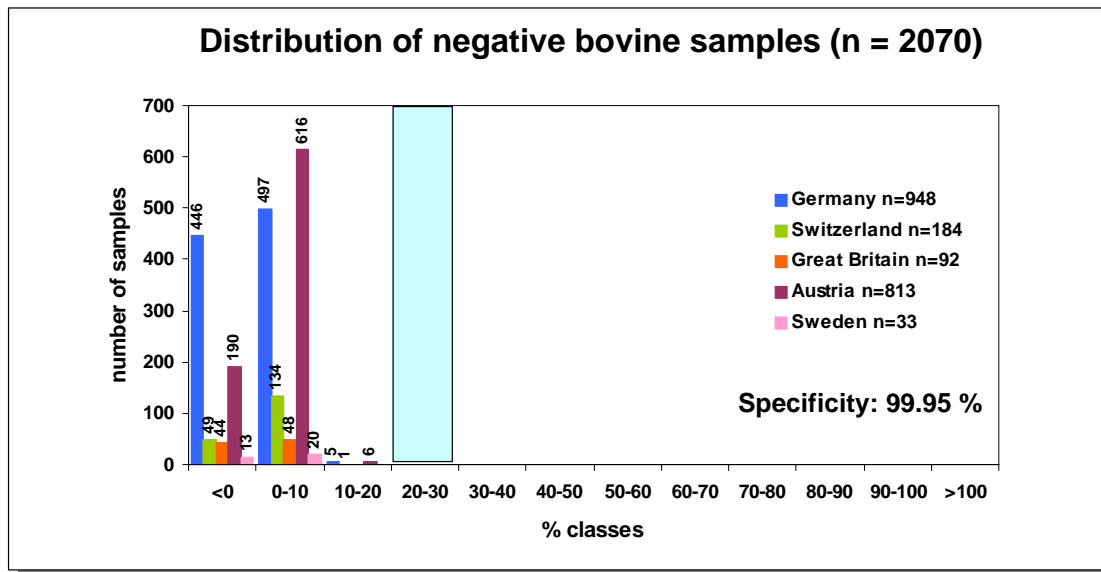
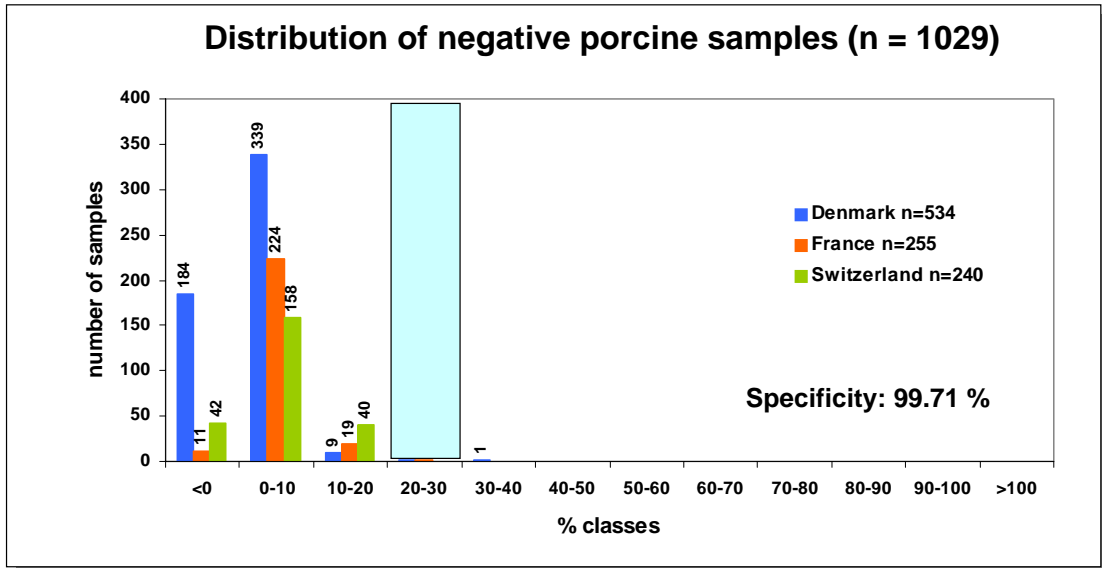


## Validation of the test

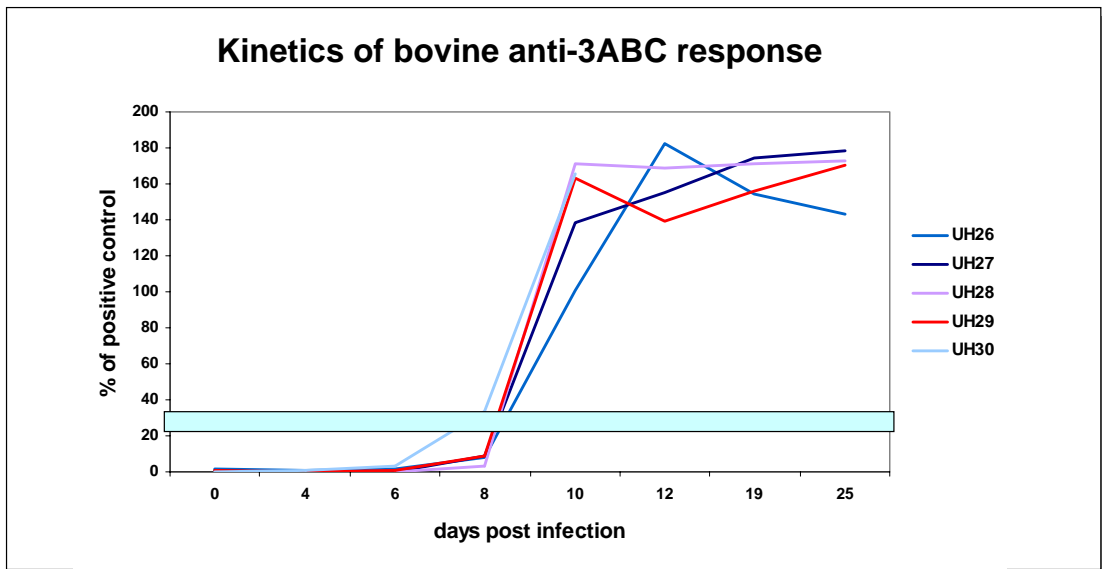
Chekit-FMD-3ABC has been validated with the sera, which have been used for the validation of the original Brescia and Pirbright tests. The sera were from experiments as well as from the field, from well over 5.000 animals, cattle, sheep and swine. The sera involved all main FMDV-types. The sera have been supplied by the Instituto Zooprofilattica in Brescia (Italy), World Reference Laboratory Pirbright and the ID-Lelystad Institute from The Netherlands.

The following selected data give an impression on the performance of the testkit in negative and positive animals:

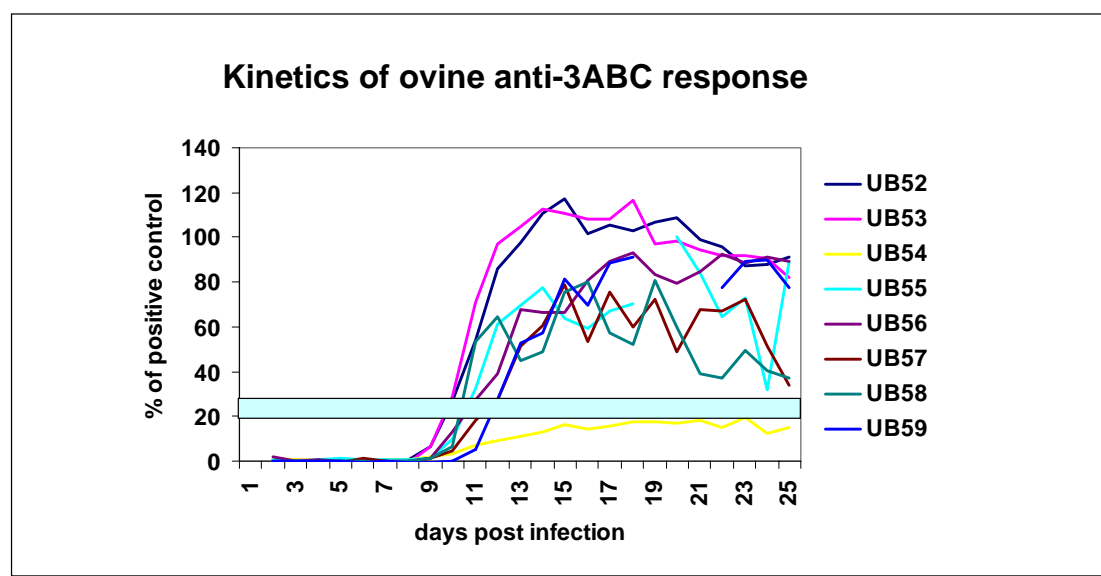




**Antibodies against 3ABC after challenge in cattle:**



## Antibodies against 3ABC after challenge in sheep:



The specificity of sera from vaccinated animals is shown in Table I-III. Vaccination elicits virus neutralizing antibodies in cattle (Table I), in sheep (Table II) and in pigs (Table III). In contrast, none of these sera contain detectable amounts of anti-3ABC antibodies.

Table I. Testing of bovine vaccinated animals<sup>a)</sup>

	Group 1				Group 2			
	ELISA (%) <sup>b)</sup>		VNT (log <sub>10</sub> ) <sup>c)</sup>		ELISA (%)		VNT (log <sub>10</sub> )	
pv weeks	x	SD	X	SD	x	SD	x	SD
0	-0.7	2.65	<0.30	NA	-2.7	0.60	<0.30	NA
1	-0.5	3.69	0.53	0.35	-2.1	0.68	<0.30	NA
2	-2.8	0.44	1.28	0.11	-2.8	0.24	<0.30	NA
3	-2.6	1.32	0.9	NA	-1.3	1.40	0.3	NA
4	-1.8	0.08	0.83	0.11	-1.0	0.84	0.6	NA
5	2.1	3.73	>2.55	NA	-2.4	0.20	1.65	NA

- a) Cattle (n=2), were immunized with O<sub>1</sub> Manisa (Group 1) or served as control (Group 2)  
 2) Both Groups were challenged with the homologous strain.  
 b) CHEKIT-FMD-3ABC  
 c) Strain: O<sub>1</sub> Manisa  
 NA: not applicable

Table II. Testing of ovine vaccinated animals<sup>a)</sup>

pv weeks	ELISA (%) <sup>b)</sup>		VNT (log10)					
	X	SD	A <sub>22</sub> Iraq		O <sub>1</sub> Manisa		Asia <sub>1</sub> Shamir	
			X	SD	X	SD	x	SD
0	-2.3	0.53	<0.30	NA	<0.30	NA	<0.30	NA
1	-2.5	0.72	<0.30	NA	0.75	0.28	0.99	0.29
2	-2.2	0.41	0.63	0.33	1.29	0.59	1.98	0.27
3	-2.5	0.28	0.57	0.22	1.53	0.61	1.62	0.27

- a) Sheep (n=5), were immunized with a vaccine comprising strains A<sub>22</sub> Iraq, O<sub>1</sub> Manisa, O<sub>1</sub> Marocco, and Asia<sub>1</sub> Shamir  
b) CHEKIT-FMD-3ABC  
NA: not applicable

Table III. Testing of porcine vaccinated animals<sup>a)</sup>

pv weeks	ELISA (%) <sup>b)</sup>		VNT (log10)					
	X	SD	A <sub>24</sub> Cruzeiro		O <sub>1</sub> Manisa		C <sub>1</sub> Detmold	
			X	SD	X	SD	x	SD
0	5.2	2.69	0.09	0.20	0.09	0.20	0.09	0.20
1	7.8	1.42	0.42	0.27	0.99	0.39	0.45	0.50
2	5.2	4.78	0.60	0.21	1.23	0.33	0.84	0.23
3	5.0	1.19	1.11	0.38	1.80	0.35	1.35	0.32
4	4.4	1.92	1.44	0.29	2.01	0.39	1.74	0.31

- a) Pigs (n=5), were immunized with a vaccine comprising strains A<sub>24</sub> Cruzeiro, O<sub>1</sub> Manisa, and C<sub>1</sub> Detmold  
b) CHEKIT-FMD-3ABC  
NA; not applicable