



Public Health Institute Ostrava  
Center of clinical laboratories  
Testing laboratory n. 1554 accredited  
according to ISO/IEC 17025  
Partyzánské nám.7, 702 00 Ostrava  
VAT: CZ71009396  
Laboratory for testing virucidal effect



## TEST REPORT n. 3/2015/SVU

Virucidal quantitative suspension test for chemical disinfectants and antiseptics used in human medicine - Test method and requirements (phase 2/ step 1) – according DVV/RKI:2008

**Customer:**  
SCHULKE CZ s.r.o.  
Lidická 326  
735 95 Bohumín  
CZ

**Order number:** 50000208  
**Reference number:** ZU/07963/2015

### Identification of disinfectant – sample:

Product name:	CHIROSAN PLUS
Lot number:	50981BMA
Expiration:	4/2016
Producer:	Schulke CZ s.r.o.
Storage conditions:	-10°C to +25°C
Diluent product recommended by the producer for use:	domestic water
Product appearance:	white powder
The active substance(s) and its (their) concentration:	peracetic acid generated in situ
Activation of solution:	15 min intensive blending

Purpose of product:	surface and instruments disinfection
Date of delivery of the product:	26.3.2015
Date of test:	2.4. – 25.5.2015

## **Results - for details see annex**

According to DVV/RKI the test product CHIROSAN PLUS, designed for surface and instruments disinfection, diluted by water to 0,5% demonstrate virucidal activity after an exposure time 5 min, 10 min and 30 min, at temperature  $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ , under dirty conditions (10% fetal bovine serum)), using viral titration on monolayer cell culture on a microtitre plate by reduction of reference virus *Vaccinia virus, strain Elstree* by more than 4 lg.

According to DVV/RKI the test product CHIROSAN PLUS, designed for surface and instruments disinfection, diluted by water to 0,5% does not demonstrate virucidal activity after an exposure time 5 min and 10 min, at temperature  $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ , under dirty conditions (10% fetal bovine serum)), using viral titration on monolayer cell culture on a microtitre plate by reduction of reference virus *Bovine viral diarrhea virus, strain NADL* by more than 4 lg.

According to DVV/RKI the test product CHIROSAN PLUS, designed for surface and instruments disinfection, diluted by water to 0,5% demonstrate virucidal activity after an exposure time 15 min and 30 min, at temperature  $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ , under dirty conditions (10% fetal bovine serum)), using viral titration on monolayer cell culture on a microtitre plate by reduction of reference virus *Bovine viral diarrhea virus, strain NADL* by more than 4 lg

## **Conclusion:**

According to DVV/RKI the test product CHIROSAN PLUS diluted by water to 0,5% demonstrate limited virucidal activity to enveloped viruses under the dirty conditions after exposure time 15 min.

In Ostrava, 26.5.2015

Zdravotní ústav se sídlem v Ostravě  
Partyzánské nám. 7, 728 92 Ostrava  
IČ: 71009396

1

Mgr. Ludmila Porubová  
Guarantor of testing

**Annex to the protocol n.: 3/2015/SVU**

**Identification of product:**

Product name: CHIROSAN PLUS  
Lot number: 027A140418  
Expiratin: 4/2016  
Producer: Schulke CZ s.r.o.  
Date of delivery of product 26.3.2015  
Storage conditions: -10°C to +25°C  
Diluent: domestic water  
Product appearance: white powder  
The active compound(s) and its (their) concentration: peracetic acid generated in situ  
Activation of solution: 15 min intensive blending

**Experimental conditions:**

Date of testing: Quantitative suspension test for the determine of virucidal effect of disinfectant according DVV/RKI (SOP n. 1901)  
2.4. – 25.5.2015  
Diluent: hard water  
Testing concentration: 0,5%  
Appearance of dilution of the product: clear solution  
Contact times: 5 min, 10 min, 30 min; 15 min only BVDV  
Testing temperature: 20°C±1°C  
Interfering substance: dirty conditions – 10% FBS  
Stability of mixture during testing: stable  
Incubation temperature: 37°C±1°C  
Method of filtration: MicroSpin  
Test virus: *Vaccinia virus, strain Elstree (ATCC) 7.passage, EMEM + 2% FBS*  
*Bovine viral diarrhea virus, strain NADL(ATCC), 4., 6. and 7.passage,DMEM + 2% FBS*  
Proces to stop action of product: virucidal activity of product is suppressed by transferring the sample into the ice cold diluent  
Cell line: Vero(ATCC), 22. to 25.pásáž, DMEM + 10% FBS  
KOP-R (FLI), 28. to 39. passage, EMEM + 10% FBS  
Titration method: viral titration on monolayer cell culture on the microplates  
Reference substance: Formaldehyde (Sigma-Aldrich, č.s. SZBC2290V)  
Titers calcullated by: Spaerman – Kärber's method

**Test detail:**

1. Preparation of tissue culture testing
2. Preparation of the test virus suspension
3. Test infectivity of the virus
4. Titration of the virus with the conditions
5. The cytotoxic effect of the product
6. Reference viral inactivation test
7. Viral inactivacion test of product
8. Control of susceptibility

**Table n.1** The results and validation of the test for product CHIROSAN PLUS to *Vaccinia virus, strain Elstree – dirty conditions – 1.test*

Product	Concentration	Interfering substance	Level of cytotoxicity	log <sub>10</sub> TCID <sub>50</sub> / ml after ... min				Reduction factor (Δlog <sub>10</sub> TCID <sub>50</sub> / ml after ... min)			
				0,25	5	10	30	60	5	10	30
CHIROSAN PLUS	0,5%	10% FBS	2,5	n.d.	2,5± 0,000	2,5± 0,000	n.d.	n.d.	4,6± 0,478	4,6± 0,478	4,6± 0,478
CHIROSAN PLUS+	0,5%	10% FBS	1,5	n.d.	1,55± 0,000	n.d.	n.d.	n.d.	5,4± 0,370	n.d.	n.d.
Formaldehyde	0,7% (m/V)	PBS	2,5	n.d.	5,3± 0,151	4,1± 0,185	2,5± 0,000	2,5± 0,000	1,6± 0,0478	2,8± 0,524	4,4± 0,0000
Virus control	n.a.	10% FBS	n.a.	n.d.	7,1± 0,239	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Virus control + Microspin	n.a.	10% FBS	n.a.	n.d.	6,9± 0,185	n.d.	n.d.	n.d.	6,9± 0,0000	6,9± 0,0000	n.d.
Susceptibility of cells - PBS	n.a.	10% FBS	n.a.	n.d.	n.d.	n.d.	n.d.	n.d.	7,3± 0,239	7,3± 0,239	n.d.
Susceptibility of cells – CHIROSAN PLUS	0,05%	10% FBS	n.a.	n.d.	n.d.	n.d.	n.d.	n.d.	6,9± 0,185	6,9± 0,185	n.d.

**Table n.2** The results and validation of the test for product CHIROSAN PLUS to *Vaccinia virus, strain Elstree – dirty conditions – 2.test*

Product	Concentration	Interfering substance	Level of cytotoxicity	log <sub>10</sub> TCID <sub>50</sub> / ml after ... min				Reduction factor (Δlog <sub>10</sub> TCID <sub>50</sub> / ml after ... min)			
				0,25	5	10	30	60	5	10	30
CHIROSAN PLUS	0,5%	10% FBS	2,5	n.d.	2,5± 0,000	2,5± 0,000	n.d.	n.d.	4,8± 0,302	4,8± 0,302	4,8± 0,302
Formaldehyde	0,7% (m/V)	PBS	2,5	n.d.	5,3± 0,000	4,1± 0,185	2,5± 0,000	2,5± 0,000	1,0± 0,000	1,4± 0,370	4,0± 0,000
Virus control	n.a.	10% FBS	n.a.	n.d.	7,3± 0,151	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Virus control + Microspin	n.a.	10% FBS	n.a.	n.d.	n.d.	n.d.	n.d.	n.d.	6,5± 0,000	6,5± 0,000	n.d.
Susceptibility of cells - PBS	n.a.	10% FBS	n.a.	n.d.	n.d.	n.d.	n.d.	n.d.	6,9± 0,185	6,9± 0,185	n.d.
Susceptibility of cells – CHIROSAN PLUS	0,05%	10% FBS	n.a.	n.d.	n.d.	n.d.	n.d.	n.d.	6,7± 0,151	6,7± 0,151	n.d.

Prepared by: Mgr. Ludmila Porubová

This protocol cannot be reproduced in whole or in part without the express written permission of testing laboratory. Results are related only to tested sample. The center of clinical laboratories - testing laboratory n.1554 accredited according to ISO/ IEC 17025. List of accredited methods is shown in [www.znova.cz](http://www.znova.cz). The sample was examined by SOP No.1901

**Table n.3 The results and validation of the test for product CHIROSAN PLUS to BVDV, strain NADL – dirty conditions – 1.test**

Product	Concentration	Interfering substance	Level of cytotoxicity	log 10 TCID <sub>50</sub> / ml after ... min						Reduction factor (Δlog <sub>10</sub> TCID <sub>50</sub> / ml after ... min)			
				5	10	15	30	60	5	10	15	30	60
CHIROSAN PLUS	0,5%	10% FBS	1,5	2,9 ± 0,214	1,7 ± 0,151	1,5 ± 0,000	n.d.	n.d.	2,6 ± 0,428	3,8 ± 0,305	4,0 ± 0,302	4,0 ± 0,000	n.d.
Formaldehyde	0,7% (m/V)	PBS	2,5	3,7 ± 0,151	3,5 ± 0,000	n.d.	n.d.	2,5 ± 0,000	1,8 ± 0,302	2,0 ± 0,000	n.d.	3,0 ± 0,000	3,0 ± 0,000
Virus control	n.a.	10% FBS	n.a.	5,5 ± 0,000	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Virus control + Microspin	n.a.	10% FBS	n.a.	5,5 ± 0,000	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5,5 ± 0,000	n.d.	n.d.
Susceptibility of cells - PBS	n.a.	10% FBS	n.a.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5,5 ± 0,000	n.d.	n.d.
Susceptibility of cells – CHIROSAN PLUS	0,05%	10% FBS	n.a.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5,5 ± 0,000	n.d.	n.d.

**Table n.4 The results and validation of the test for product CHIROSAN PLUS to BVDV, strain NADL – dirty conditions – 2.test**

Product	Concentration	Interfering substance	Level of cytotoxicity	log 10 TCID <sub>50</sub> / ml after ... min						Reduction factor (Δlog <sub>10</sub> TCID <sub>50</sub> / ml after ... min)			
				5	10	15	30	60	5	10	15	30	60
CHIROSAN PLUS	0,5%	10% FBS	1,5	6,1 ± 0,185	2,7 ± 0,302	1,7 ± 0,151	1,5 ± 0,000	n.d.	0,4 ± 0,370	3,8 ± 0,605	4,8 ± 0,302	5,0 ± 0,000	n.d.
Formaldehyde	0,7% (m/V)	PBS	2,5	4,3 ± 0,185	3,5 ± 0,000	3,5 ± 0,000	2,5 ± 0,000	2,5 ± 0,000	2,2 ± 0,478	2,8 ± 0,302	n.d.	3,8 ± 0,370	3,8 ± 0,370
Virus control	n.a.	10% FBS	n.a.	6,5 ± 0,000	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Virus control + Microspin	n.a.	10% FBS	n.a.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	6,3 ± 0,151	n.d.	n.d.
Susceptibility of cells - PBS	n.a.	10% FBS	n.a.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	6,3 ± 0,151	n.d.	n.d.
Susceptibility of cells – CHIROSAN PLUS	0,05%	10% FBS	n.a.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	6,5 ± 0,000	n.d.	n.d.

Prepared by: Mgr. Ludmila Porubová 

This protocol cannot be reproduced in whole or in part without the express written permission of testing laboratory. Results are related only to tested sample. The center of clinical laboratories - testing laboratory n.1554 accredited according to ISO/ IEC 17025. List of accredited methods is shown in [www.ziuova.cz](http://www.ziuova.cz). The sample was examined by SOP No.1901

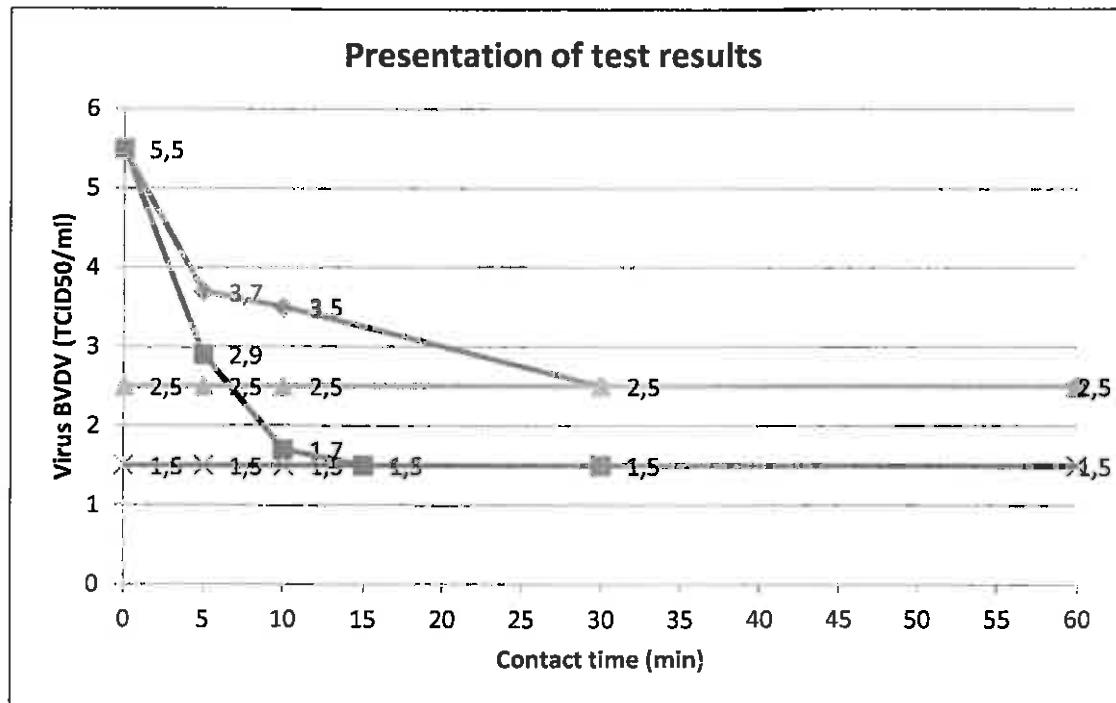
**Table n.5: Average results of the test for product CHIROSAN PLUS to *Vaccinia virus, strain Elstree***

Product - concentration	Interfering substance	Level of cytotoxicity	Virus control	Contact time	Reduction factor ( $\log_{10}$ TCID <sub>50</sub> / ml)		Average reduction factor and its 95% confidence interval ( $\log_{10}$ TCID <sub>50</sub> / ml)
					1. test	2 test	
CHIROSAN PLUS – 0,5%	10% FBS	2,5	7,1 ± 0,239 (1.test)	5 min	4,6 ± 0,478	4,8 ± 0,302	4,7 ± 0,399
CHIROSAN PLUS – 0,5%	10% FBS	2,5	7,3 ± 0,151 (2.test)	10 min	4,6 ± 0,478	4,8 ± 0,302	4,7 ± 0,399
CHIROSAN PLUS – 0,5%	10% FBS	2,5		30 min	4,6 ± 0,478	4,8 ± 0,302	4,7 ± 0,399

**Table n.6: Average results of the test for product CHIROSAN PLUS to *BVDV, strain NADL***

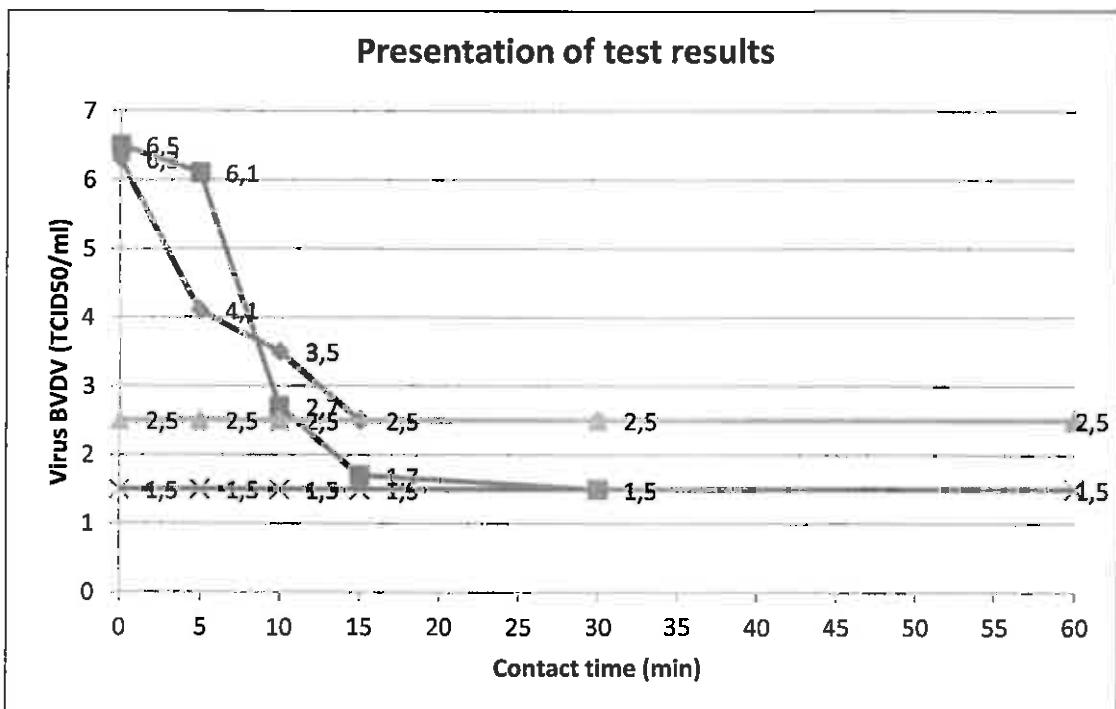
Product - concentration	Interfering substance	Level of cytotoxicity	Virus control	Contact time	Reduction factor ( $\log_{10}$ TCID <sub>50</sub> / ml)		Average reduction factor and its 95% confidence interval ( $\log_{10}$ TCID <sub>50</sub> / ml)
					1. test	2 test	
CHIROSAN PLUS – 0,5%	10% FBS	1,5	5,5 ± 0,000 (1.test)	5 min	2,6 ± 0,428	0,4 ± 0,370	1,5 ± 0,400
CHIROSAN PLUS – 0,5%	10% FBS	1,5	6,5 ± 0,000 (2.test)	10 min	3,8 ± 0,305	3,8 ± 0,605	3,8 ± 0,479
CHIROSAN PLUS – 0,5%	10% FBS	1,5		15 min	4,0 ± 0,302	4,8 ± 0,302	4,4 ± 0,302
CHIROSAN PLUS – 0,5%	10% FBS	2,5		30 min	4,0 ± 0,000	5,0 ± 0,000	4,5 ± 0,000

Figure 1: Graphic presentation of results of the test for product CHIROSAN PLUS to BVDV, strain NADL – 1.test



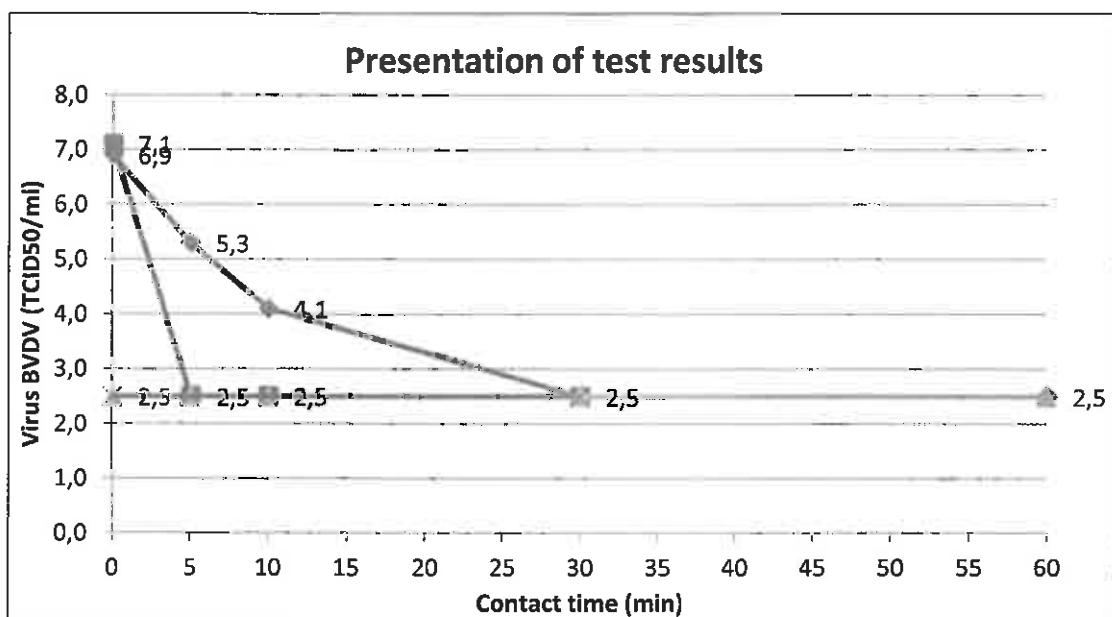
Key: Inactivation of virus BVDV by formaldehyde 0,7%, Inactivation of virus BVDV by ChiroSAN plus 0,5%,  
 Cytotoxicity of formaldehyde 0,7%, Cytotoxicity of ChiroSAN plus 0,5%

Figure 2: Graphic presentation of results of the test for product CHIROSAN PLUS to BVDV, strain NADL – 2.test



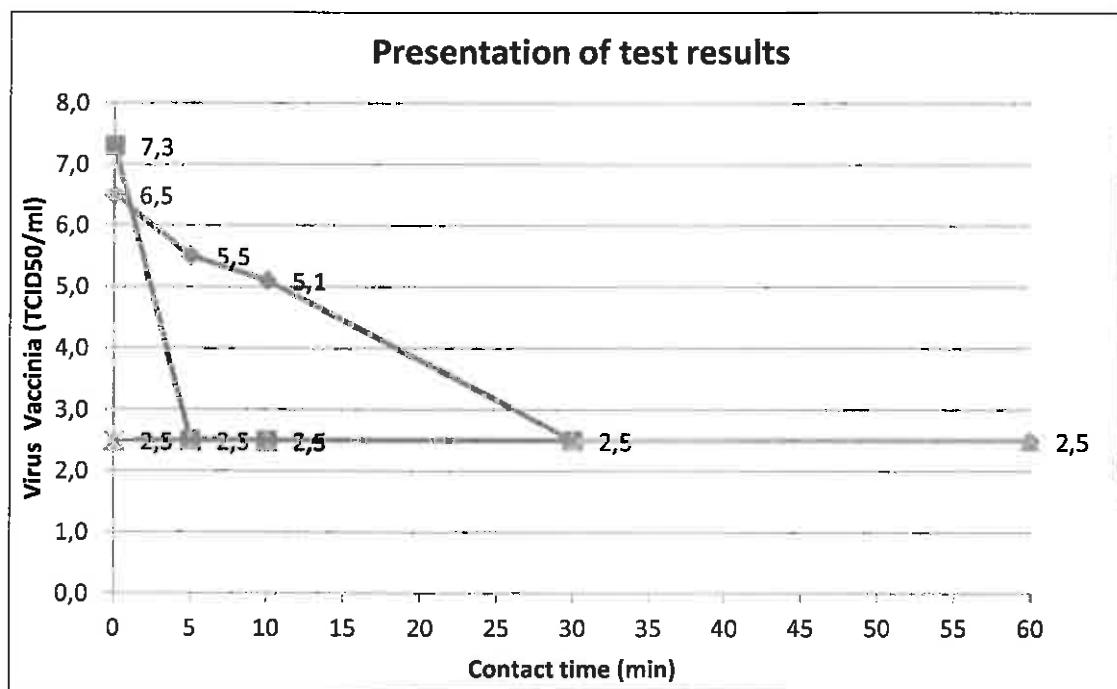
Key: Inactivation of virus BVDV by formaldehyde 0,7%, Inactivation of virus BVDV by ChiroSAN plus 0,5%,  
 Cytotoxicity of formaldehyde 0,7%, Cytotoxicity of ChiroSAN plus 0,5%

**Figure 3: Graphic presentation of results of the test for product CHIROSAN PLUS to *Vaccinia virus, strain Elstree* – 1.test**



Key: —●— Inactivation of virus Vaccinia by formaldehyde 0,7%, —■— Inactivation of virus Vaccinia by ChiroSAN plus 0,5%,  
—▲— Cytotoxicity of formaldehyde 0,7%, —▼— Cytotoxicity of ChiroSAN plus 0,5%

**Figure 4: Graphic presentation of results of the test for product CHIROSAN PLUS to *Vaccinia virus, strain Elstree* – 2.test**



Key: —●— Inactivation of virus Vaccinia by formaldehyde 0,7%, —■— Inactivation of virus Vaccinia by ChiroSAN plus 0,5%,  
—▲— Cytotoxicity of formaldehyde 0,7%, —▼— Cytotoxicity of ChiroSAN plus 0,5%

Table n.7: Raw date of test for product CHIROSAN PLUS to *Vaccinia virus, strain Elstree* – dirty conditions – 1. test

Product	Concentration	Interfering substance	Contact time	Dilution (log 10)							
				-1	-2	-3	-4	-5	-6	-7	-8
Chirosan plus	0,5%	10% FBS	5 min	CT	00000	00000	00000	00000	00000	00000	00000
Chirosan plus + MicroSpin	0,5%	10% FBS	5 min	00000	00000	00000	00000	00000	00000	00000	00000
Chirosan plus	0,5%	10% FBS	10 min	CT	00000	00000	00000	00000	00000	00000	00000
Chirosan plus	0,5%	10% FBS	30 min	CT	00000	00000	00000	00000	00000	00000	00000
Cytotoxicity CHIROSAN PLUS	0,5%	10% FBS	n.a.	CT	00000	00000	00000	n.a.	n.a.	n.a.	n.a.
Cytotoxicity CHIROSAN PLUS + Microspin	0,5%	10% FBS	n.a.	00000	00000	00000	00000	n.a.	n.a.	n.a.	n.a.
Cytotoxicity Formaldehyde	0,7% (m/V)	PBS	n.a.	CT	00000	00000	00000	n.a.	n.a.	n.a.	n.a.
Formaldehyde	0,7% (m/V)	PBS	5 min	CT	33333	22222	11101	00000	00000	00000	00000
			10 min	CT	33333	00211	00000	00000	00000	00000	00000
			30 min	CT	00000	00000	00000	00000	00000	00000	00000
			60 min	CT	00000	00000	00000	00000	00000	00000	00000
Susceptibility of cells - PBS	n.a.	10% FBS	60 min	44444	44444	44444	44444	22332	23002	00100	00000
Susceptibility of cells - CHIROSAN PLUS	0,05%	10% FBS	60 min	44444	44444	44444	44444	33333	01030	00000	00000
Virus control	n.a.	10% FBS	5 min	44444	44444	44444	44444	33423	02010	00200	00000
Virus control + Microspin	n.a.	10% FBS	5 min	44444	44444	44444	44444	44342	00110	00000	00000
Virus control + Microspin	n.a.	10% FBS	60 min	44444	44444	44444	44444	32222	00000	00000	00000

1 to 4 virus detectable (1 = 25% CPE, 4 = 100% CPE)

0 no virus/ no cytotoxicity

n.a. not applicable

n.d. not done

CT Cytotoxicologic effect

CPE Cytopathogenic effect

Prepared by: Mgr. Ludmila Porubová

**Table n.8: Raw date of test for product CHIROSAN PLUS to *Vaccinia virus, strain Elstree* – dirty conditions – 2.test**

Product	Concentration	Interfering substance	Contact time	Dilution (log 10)							
				-1	-2	-3	-4	-5	-6	-7	-8
Chirosan plus	0,5%	10% FBS	5 min	CT	00000	00000	00000	00000	00000	00000	00000
Chirosan plus	0,5%	10% FBS	10 min	CT	00000	00000	00000	00000	00000	00000	00000
Chirosan plus	0,5%	10% FBS	30 min	CT	00000	00000	00000	00000	00000	00000	00000
Cytotoxicity CHIROSAN PLUS	0,5%	10% FBS	n.a.	CT	00000	00000	00000	n.a.	n.a.	n.a.	n.a.
Cytotoxicity Formaldehyde	0,7% (m/V)	PBS	n.a.	CT	00000	00000	00000	n.a.	n.a.	n.a.	n.a.
Formaldehyde	0,7% (m/V)	PBS	5 min	CT	44444	33333	22222	00000	00000	00000	00000
			10 min	CT	44444	22222	01101	00000	00000	00000	00000
			30 min	CT	00000	00000	00000	00000	00000	00000	00000
			60 min	CT	00000	00000	00000	00000	00000	00000	00000
Susceptibility of cells - PBS	n.a.	10% FBS	60 min	44444	44444	44444	44444	43322	00310	00000	00000
Susceptibility of cells - CHIROSAN PLUS	0,05%	10% FBS	60 min	44444	44444	44444	44444	32332	03000	00000	00000
Virus control	n.a.	10% FBS	5 min	44444	44444	44444	44444	33423	10311	00000	00000
Virus control + Microspin	n.a.	10% FBS	60 min	44444	44444	44444	44444	44333	00000	00000	00000

1 to 4 virus detectable (1 = 25% CPE, 4 = 100% CPE)

0 no virus/ no cytotoxicity

n.a. not applicable

n.d. not done

CT Cytotoxicologic effect

CPE Cytopathogenic effect

Prepared by: Mgr. Ludmila Porubová

Table n.9: Raw date of test for product CHIROSAN PLUS to BVDV, strain NADL – dirty conditions – 1. test

Product	Concentration	Interfering substance	Contact time	Dilution (log 10)							
				-1	-2	-3	-4	-5	-6	-7	-8
Chirosan plus	0,5%	10% FBS	5 min	44444	00004	00004	00000	00000	00000	00000	00000
Chirosan plus + MicroSpin	0,5%	10% FBS	5 min	44444	04440	04004	00000	00000	00000	00000	00000
Chirosan plus	0,5%	10% FBS	10 min	00300	00000	00000	00000	00000	00000	00000	00000
Chirosan plus + MicroSpin	0,5%	10% FBS	10 min	00303	00000	00000	00000	00000	00000	00000	00000
Chirosan plus	0,5%	10% FBS	15 min	00000	00000	00000	00000	00000	00000	00000	00000
Chirosan plus	0,5%	10% FBS	30 min	00000	00000	00000	00000	00000	00000	00000	00000
Chirosan plus + MicroSpin	0,5%	10% FBS	30 min	00000	00000	00000	00000	00000	00000	00000	00000
Cytotoxicity CHIROSAN PLUS	0,5%	10% FBS	n.a.	00000	00000	00000	00000	n.a.	n.a.	n.a.	n.a.
Cytotoxicity CHIROSAN PLUS + Microspin	0,5%	10% FBS	n.a.	00000	00000	00000	00000	n.a.	n.a.	n.a.	n.a.
Cytotoxicity Formaldehyde	0,7% (m/V)	PBS	n.a.	CT	CT	CT	00000	n.a.	n.a.	n.a.	n.a.
Formaldehyde	0,7% (m/V)	PBS	5 min	CT	33333	22222	11101	00000	00000	00000	00000
			10 min	CT	33333	00211	00000	00000	00000	00000	00000
			30 min	CT	00000	00000	00000	00000	00000	00000	00000
			60 min	CT	00000	00000	00000	00000	00000	00000	00000
Susceptibility of cells - PBS	n.a.	10% FBS	60 min	44444	44444	44444	33333	00000	00000	00000	00000
Susceptibility of cells - CHIROSAN PLUS	0,05%	10% FBS	60 min	44444	44444	44444	33333	00000	00000	00000	00000
Virus control	n.a.	10% FBS	5 min	44444	44444	44444	33333	00000	00000	00000	00000
Virus control + Microspin	n.a.	10% FBS	5 min	44444	44444	44444	33333	00000	00000	00000	00000
Virus control + Microspin	n.a.	10% FBS	60 min	44444	44444	44444	33333	00000	00000	00000	00000

1 to 4 virus detectable (1 = 25% CPE, 4 = 100% CPE)

0 no virus/ no cytotoxicity

n.a. not applicable

n.d. not done

CT Cytotoxicologic effect

CPE Cytopathogenic effect

Prepared by: Mgr. Ludmila Porubová

**Table n.10: Raw date of test for product CHIROSAN PLUS to BVDV, strain NADL – dirty conditions – 2.test**

Product	Concentration	Interfering substance	Contact time	Dilution (log 10)							
				-1	-2	-3	-4	-5	-6	-7	-8
Chirosan plus	0,5%	10% FBS	5 min	44444	44444	22333	33333	32200	00000	00000	00000
Chirosan plus	0,5%	10% FBS	10 min	33000	03330	30000	00000	00000	00000	00000	00000
Chirosan plus	0,5%	10% FBS	15 min	00200	00000	00000	00000	00000	00000	00000	00000
Chirosan plus	0,5%	10% FBS	30 min	00000	00000	00000	00000	00000	00000	00000	00000
Cytotoxicity CHIROSAN PLUS	0,5%	10% FBS	n.a.	00000	00000	00000	00000	n.a.	n.a.	n.a.	n.a.
Cytotoxicity Formaldehyde	0,7% (m/V)	PBS	n.a.	CT	00000	00000	00000	n.a.	n.a.	n.a.	n.a.
Formaldehyde	0,7% (m/V)	PBS	5 min	CT	44444	03303	00000	00000	00000	00000	00000
			10 min	CT	44444	00000	00000	00000	00000	00000	00000
			30 min	CT	0000	00000	00000	00000	00000	00000	00000
			60 min	CT	0000	00000	00000	00000	00000	00000	00000
Susceptibility of cells - PBS	n.a.	10% FBS	60 min	44444	44444	44444	33333	44332	00000	00000	00000
Susceptibility of cells - CHIROSAN PLUS	0,05%	10% FBS	60 min	44444	44444	44444	33333	33204	00000	00000	00000
Virus control	n.a.	10% FBS	5 min	44444	44444	44444	44444	33243	00000	00000	00000
Virus control + Microspiri	n.a.	10% FBS	60 min	44444	44444	44444	44324	03303	00000	00000	00000

1 to 4 virus detectable (1 = 25% CPE, 4 = 100% CPE)

0 no virus/ no cytotoxicity

n.a. not applicable

n.d. not done

CT Cytotoxicologic effect

CPE Cytopathogenic effect

Prepared by: Mgr. Ludmila Porubová