

MINISTRY OF THE HEALTHCARE OF THE RUSSIAN FEDERATION
The Accreditation System for Testing Laboratory Centers of the State
Sanitary and Epidemiological Service of the Russian Federation

TESTING LABORATORY CENTER
of the D.I. Ivanovskiy State Research Institute of
Virology of the Russian Academy of Medical Sciences

Accreditation Certificate No. ГСЭН.RU.ЦОА.315
State Registration No. РОСС.RU.0001.513126

123098, Moscow, Gamalei St., 16

tel. (095) 190-28-43

tel./fax (095) 190-28-67

APPROVED

Director of the State Research Institute of Virology
Head of the Testing Laboratory Center, member of the
Russian Academy of Medical Sciences

D.K. Lvov
20 December 2005

SCIENTIFIC REPORT
on test results of virucidal activity
of disinfecting product

Name of the product tested: Sample of disinfecting product DEZAVID
by LLC Adequate Technologies, Russia.

Customer's name and address: LLC Adequate Technologies, Russia.

Dates when samples were received and tests conducted:

01.11.05 — 19.12.05.

Sampling site: LLC Adequate Technologies, Russia.

Purpose of the study: Investigation of virucidal activity of disinfecting product DEZAVID
against avian influenza A virus H5N1.

Investigation procedure, date of approval: “Методы испытаний дезинфекционных
средств для оценки их безопасности и эффективности”, М., 1998 (“Studying Methods of
Disinfecting Products for Evaluation of Their Safety and Efficacy,” Moscow, 1998).

Methodological Recommendations “По определению вирулицидной активности
препаратов” (“On Determination of Virucidal Activity of Preparations”) by the Healthcare
Ministry of the USSR No. 1119-73 of 06.09.1973.

Known deviations from the procedure: None.

Test viruses used for the investigation: avian influenza virus.

Influenza virus. Strain of avian influenza A H5N1 from the strain collection of the
D.I. Ivanovskiy State Research Institute of Virology of the Russian Academy of Medical
Sciences was used as source virus.

Physical and chemical properties of the sample: concentrate of DEZAVID preparation
containing, as active substance:

alkyldimethylbenzylammonium chloride (0.5%),
polyhexamethylene guanidine hydrochloride (2.7%).

Sample preparation procedure: the product was used as aqueous solution.

Exposure time with the disinfectant was: 60, 120, 180 minutes.

Test facilities for the study: the treated facilities were surfaces: linoleum, metal. Disinfection
mode was horizontal. Viral films were prepared in accordance with the regulatory procedures.

Study content. Treating the virus-contaminated facilities with the disinfecting product and
subsequently infecting sensitive cell cultures with the treated virus.

Virus reproduction was assessed by the virus-induced cytopathic effect.

Test result evaluation criteria: by inhibition degree of the infectious virus titer measured as \log_{10} TCD₅₀ (50% tissue cytopathic dose).

TEST RESULTS:

For the test results, refer to Table 1.

Table 1

Disinfection mode with DEZAVID product for various facilities
infected with avian influenza A H5N1 virus

Facility for disinfection		Concentration, %	Disinfecting time, min.	Number of treatments	Treatment method
Surfaces	Linoleum	4.0	60	Once	Wiping
		3.0	120	Once	
		2.0	60	Twice*	
	Metal	4.0	60	Once	
		3.0	120	Once	
		2.0	60	Twice*	

Note: * re-wiped after 15 minutes.

CONCLUSION

DEZAVID product as aqueous solution possesses virucidal activity against avian influenza A H5N1 virus as it inactivates the virus at 99.99% via treatment of surfaces contaminated with the virus-containing material.

Deputy Head of Testing Laboratory Center,
Med. Sc. Dr., Professor

D.N. Nosik

Head of New Diagnostics Systems Laboratory,
Med. Sc. Dr., Professor

P.G. Deryabin