

## Report

On the results of the approbation of the disinfectant «SABISEPT M»  
(LLC Research and Development Company “Sabina –Grand, Russia)

### **Introduction**

Today active pulmonary tuberculosis is the acutest problem at penitentiary institutions. Currently there is tendency to increase of cases of tuberculosis among personnel and very often among those people who were not in direct contact with an ill person.

The necessity of actions for disinfection of surfaces in cell rooms for extermination of infectious agents including mycobacteria of tuberculosis is acknowledged and does not cause doubts.

### **Topicality of the Problem**

The task for extermination of MBT is especially acute when in the focus there is a person discharging bacteria - in tuberculosis institutions, surgery blocks, dressing sections, as well as when contaminated material is in microbiological laboratories.

One of important problems in prevention of contamination with TB by the personnel and special staff is the necessity of actions for disinfection of the surfaces in the premises. At the moment processing the premises in institutions of correctional system is carried out with detergents containing chloride. These detergents have a number of disadvantages: exhalation of chloride irritates mucous membrane of respiratory organs and eyes, destroy metal surfaces, cause their corrosion.

Due to this absolutely new technologies for disinfection of surfaces of the premises in institutions of correctional system are required.

### **Possible solutions**

Absolutely new disinfectant detergent used for disinfection of premises and equipment, pre-sterilization cleaning even combined with disinfection of medical items (including dental instruments, flexible and rigid endoscopes) and having bactericidal (including tuberculosis), virucidal and fungicidal activity is «SABISEPT M» LLC Research and Development Company “Sabina –Grand, Russia.

## Subjects of Tests

The disinfectant detergent «SABISEPT M» has a number of advantages in comparison with many detergents:

- Its application is more economical than the detergents containing chloride, as its working solutions preserve antimicrobial activity within 14 days and are used many times.
- Low toxicity, lack of allergic reactions;
- It has highly moistening and washing effect;
- It does not cause corrosion of metals, do not interact with surfaces, do not leave stains on the surfaces and do not decolorize fabrics;
- Solutions of the detergent in recommended concentrations do not cause irritation of upper respiratory organs, do not have sharp smell (possible to use in people's presence).

### Place for carrying out the tests

The disinfectant detergent «Sabisept M» was used for disinfection of premises and equipment, pre-sterilization preparation of medical instruments in conditions of tuberculosis dispensary, surgical departments (general and purulent surgery) as well as dentistry of the hospital of the Federal State Institution И3-77/1 of the Federal Service for Punishment Execution of the Russian Federation in Moscow.

Specialists of the Centre for Treatment and Diagnostics of Tuberculosis of the hospital of the Federal State Institution И3-77/1 of the Federal Service for Punishment Execution (FSPE) of the Russian Federation in Moscow carried out tests of washouts from horizontal and vertical surfaces of the premises on sanitary model microorganisms including mycobacteria of TB (MBT).

Wide studies of bactericide action in relation to majority of hospital strains of mycobacteria (H37R.V) were arranged. Tests were carried out in accordance with widely accepted method of series cultivation in dense nutrient medium of Levenschtein –Yensen. The following range of concentrations of the disinfectant was studied: 1.5-2.0-3.0 % and their further exposition for 60, 90, and 120 minutes. The mode of processing with the disinfectant was applied in accordance with methodological instructive regulations of the Ministry of Public Health of the Russian Federation No 138-139 dated June 16, 1998 (review on the disinfectant and thorough method of assessment of its efficiency is attached).

### Results

1. The disinfectant detergent «Sabisept M» in concentration of 2.0% suppresses the growth of hospital strain of mycobacteria of TB (H37RV) at exposition of 120 minutes, in concentration of 3.0% it has bactericidal action at exposition of 60 minutes (in accordance with Instruction No 1 for Museum strain MBT at concentration of 2.0%, exposition is 60 minutes).
2. In the opinion of the personnel of the institution where the detergent was applied,

the detergent is simple to use, have high efficiency and good washing properties, do not irritate skin, do not cause allergic reactions, provides multiple processing of medical instruments.

### **3. Summary**

The disinfectant detergent «Sabisept M» produced by LLC Research and Development Company “Sabina –Grand”, Russia for disinfection of surfaces in cell rooms from mycobacteria of TB in people’s presence have good bactericidal effect, economical in comparison with analogous disinfectant detergents.

These facts let us make the conclusion that it is essential to use it at penitentiary institutions of the FSPE of Russia, especially for preventive measures for tuberculosis in cell rooms.

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