

ANNOTATION

**of report on a pre-diploma practice of a 2th year student, of group BT-71mp
specialty 162 - Biotechnologies and Bioengineering
specialization Industrial Biotechnology**

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**on the topic "Production of immunoassay test systems for detection of IgG
and IgA antibodies to Chlamydia trachomatis"**

The report on pre-diploma practice is set out on 49 pages of printed text. The report consists of an introduction, 9 sections, conclusions, a list of references and contains 5 figures and 2 tables.

The report on pre-diploma practice describes the production of immunoassay test systems for the detection of IgG and IgA antibodies to *Chlamydia trachomatis*.

The introduction substantiates the relevance of the chosen topic of research, describes the purpose of pre-diploma practice and its task.

The first part of the report is devoted to the characteristics of the enterprise and its main technical and economic indicators.

The second part of the report presents the theoretical foundations of technologies used in the enterprise.

The third part of the report describes the etiology and pathogenesis of chlamydia, an immunoassay in the diagnosis of antibodies to the class of IgG and IgA to *Chlamydia trachomatis*.

The fourth part of the report describes the main qualitative and quantitative indices of the immunoassay test systems produced by DiAprof-Med.

In the fifth and sixth parts of the report, the technological scheme and a brief description of the main stages of the technological process in the production of test systems for the detection of IgG and IgA antibodies to *Chlamydia trachomatis* are given.

The seventh part of the report presents an apparatus scheme for the production of test systems for detecting IgG and IgA antibodies to *Chlamydia trachomatis*.

The eighth part of the report defines the control points of production and finished products.

Ninth part of the report sets requirements for safety and environmental protection.

As a result of the implementation of the pre-diploma practice, the following tasks were solved: the composition and conditions of the technical operation of the main technological equipment, transport equipment, heat, air and energy supply were considered, the characteristics of the theoretical bases of technologies used in the production of immunoassay test systems were described, safety issues were described and environmental protection at the enterprise, etc.

According to the results of the pre-diploma practice, the following conclusions were made: the following data were taken into account, such as the structure and mode of the enterprise, the range of products manufactured, the main methods of control of the technological process, equipment, operating principle

and operating modes of the main technological equipment, preparation for operation and organization of repair equipment, methods of preparation and sterilization of nutrient media, methods of fence, purification and sterilization of process air, enterprise water supply systems and preparation water eaters of various levels of purification, disinfection and waste disposal systems. Skills for performing skilled work and equipment maintenance in the main areas of the technological process, organization of work in the brigade, work with people are obtained.

ANTIBODY, TEST SYSTEM, CHLAMIDIA, CHLAMYDIA
TRACHOMATIS, IMMUNOASSAY ANALYSIS, DIAGNOSTICS,
TECHNOLOGICAL EQUIPMENT