



MOSCOW REGION CLUSTER OF ENTERPRISES MANUFACTURING MEDICAL DEVICES

**CLUSTER ENTERPRISES
PRODUCTS AND PROJECTS**



MOSCOW REGION CLUSTER OF ENTERPRISES MANUFACTURING MEDICAL DEVICES

The Moscow Region Cluster of Enterprises Manufacturing Medical Devices (MRC EMMD) was established on September 29, 2016 with the aim of preserving and strengthening the leading position of the medical industry of the Moscow Region in the Russian Federation, as well as improving the quality of medical products and the competitiveness of the participants in the medical products market through the development of scientific and engineering cooperation, the formation of a common policy and programs of the state support and personnel training, the formation of state orders of the Ministry of Health of the Moscow Region and of the Russian Federation, the creation of a specialized structure, interactions to promote products to Russian and foreign markets.

Currently, medical industry of the Moscow Region occupies a leading position in the Russian Federation in terms of manufacturing medical appliances, the number of investment projects and the total number of medical products produced. This result was facilitated by federal and regional industrial development programs.

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As a part of the participants of the Medical and Technical Cluster of the Moscow Region, there are already 37 organizations engaged in production, development, supply of medical products and technology services, including: 25 developers and manufacturers of medical products, 5 technology service providers, 5 innovation infrastructure organizations, Dubna University, and the research center.

The number of participants in the cluster is constantly growing. The Cluster members plan to create at least 15 new production facilities with a planned capacity of more than 12.9 billion rubles a year by the year 2020 in Dubna technical and innovative special economic zone alone.

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BIOSENSOR AN LLC

Medical products to be used in clinic and diagnostic labs, in healthcare centers and medical and preventive treatment facilities. Start of production: 1993. More than 38 product items are expected by 2016

The products of Biosensor AN LLC are used in almost every fifth laboratory in the Russian Federation, purchased by Kazakhstan, Belorussia, Uzbekistan, Armenia, Kyrgyzstan, and Azerbaijan.

Biochemical test strips produced by Biosensor AN LLC are Nominee of the national PRIORITY Awards in the import substitution field.

Products of Biosensor AN LLC

Uripolian-XN



Biochemical test strips are used to conduct a general urine test for the main parameters: glucose, ketone bodies, hemoglobin, erythrocytes, protein, leukocytes, nitrites, bilirubin, urobilinogen, acidity (pH), density and ascorbic acid, in various combinations from one reagent zone to the classic full study for 11 parameters: Uripolian-XN.

As part of the import substitution program, the test strips are manufactured in the Russian Federation that are suitable for various imported equipment.

Urigluk-1



Urigluk-1 indicator strips are intended for visual qualitative and semi-quantitative determination of glucose in human urine, are used for rapid glucosuria level analysis and indirectly for the degree of hyperglycemia both in medical institutions and at home. Semi-quantitative determination of glucose in the urine makes it possible to control the level of glucosuria, choose an appropriate diet, and to adjust the course of treatment.

Analytical characteristics:

The range of detectable glucose concentrations in urine is 0,0 - 2,0% (0,0 - 112,0 mmol/l) – 0,0 (0,0); 0,05 (2,8); 0,1 (5,6); 0,25 (14,0); 0,5 (28,0); 1,0 (56,0) and 2,0 (112).

Uriket-1



Uriket-1 indicator strips are intended for visual qualitative or semi-quantitative determination of ketone bodies in human urine; they are used for express analysis of the level of ketonuria in medical institutions and at home. Semiquantitative determination of ketone bodies in the urine makes it possible to control the level of ketonuria, choose the appropriate diet, and to adjust the course of treatment.

Analytical characteristics:

The range of detectable concentrations of ketone bodies in urine is 0,0 - 16,0 mmol/l. 0,0 mmol/l; 0,5 mmol/l; 1,5 mmol/l; 4,0 mmol/l; 8,0 mmol/l; 16,0 mmol/l.

Ketogluk-1



Ketogluk-1 indicator strips are intended for simultaneous visual qualitative or semi-quantitative determination of glucose and ketone bodies in human urine; they are used for rapid analysis of the level of glucosuria and ketonuria in medical institutions and at home.

Analytical characteristics:

The range of detectable concentrations of ketone bodies in urine is 0,0 - 16,0 mmol/l. 0,0 mmol/l; 0,5 mmol/l; 1,5 mmol/l; 4,0 mmol/l; 8,0 mmol/l; 16,0 mmol/l.

The range of detectable glucose concentrations in urine is 0,0-2,0 % (0,0-112,0 mmol/l) – 0,0 (0,0); 0,1 (5,6); 0,25 (14,0); 0,5 (28,0); 1,0 (56,0) and 2,0 (112).

Contacts:

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www.biosensoran.ru, www.vet-diagnostics.ru, www.bioakva.ru, www.alcosensor.ru, www.express-diagnostics.ru,

www.diatest.ru, www.diabet-1.ru



BIOSENSOR AN LLC

Medical products to be used in clinic and diagnostic labs, in healthcare centers and medical and preventive treatment facilities. Start of production: 1993. More than 38 product items are expected by 2016

Diagluk



DIAGLUK indicator strips are intended for visual semi-quantitative determination of glucose in human whole blood; they are used for an approximate estimation of blood glucose level in the blood of diabetic patients, for suspected diabetes, for emergency diagnostics in medical institutions, and for self-monitoring. Semi-quantitative determination of glucose in whole blood makes it possible to control the level of glycemia, choose an appropriate diet, and to adjust the course of treatment.

Analytical characteristics:

The range of detectable blood glucose concentrations is 0,0-1000 mg% (0,0 - 55,5 mmol/l).

Uri-pH



Uri-pH indicator strips are intended for visual semi-quantitative determination of human urine pH; they are used for rapid pH analysis of urine in medical institutions and at home.

Semi-quantitative determination makes it possible to control the pH of urine, choose an appropriate diet, and to adjust the course of treatment.

Analytical characteristics:

The range of determined urine pH concentrations is pH 5,0 – 9,0.

The color scale on the label contain 7 color fields corresponding to the following pH values: 5,0; 6,0; 6,5; 7,0; 7,5; 8,0 and 9,0.

Kolpo-test pH



Kolpo-test pH test strips are intended for visual determination of the acidity of the vaginal environment; they allow for early diagnosis of vaginal infectious diseases.

Analytical characteristics:

The range of the determined pH concentrations is pH 3,0 – 7,0.

The color scale on the label contains a series of color fields corresponding to pH values of 3,0; 3,5; 3,7; 4,0; 4,2; 4,5; 4,8; 5,0; 5,5; 6,0; 6,5; 7,0.

Uribel



Uribel indicator strips are intended for visual qualitative or semi-quantitative determination of protein in human urine; they are used for express analysis of protein level in medical institutions and at home. Semi-quantitative determination of the protein in the urine makes it possible to control the level of protein, choose the appropriate diet, and to adjust the course of treatment.

Analytical characteristics:

The range of detectable concentrations of protein in the urine is 0,0-10,0 g/l.

The color scale on the label contains 6 color fields corresponding to protein concentrations: 0,0 g/l; 0,15 g/l; 0,3 g/l; 1,0 g/l; 3,0 g/l and 10 g/l.

Alcosensor



Alcosensor indicator strips are intended for fast visual qualitative or semi-quantitative determination of alcohol in human saliva; they are used for screening and evaluation of alcohol content in the human body, if necessary, for emergency diagnosis, and for self-monitoring.

Analytical characteristics:

The range of detectable alcohol concentrations in saliva is 0,0% -0,2% (0,0-2,0‰). The color scale on the label contains 5 color fields corresponding to the alcohol percentage concentration % (‰): 0,0 (0,0); 0,02 (0,2); 0,05 (0,5); 0,1 (1,0); 0,2 (2,0). The minimum detectable concentration (sensitivity of determination) of alcohol in saliva is not more than 0,02% (0,2‰).

Contacts:

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www.diatest.ru, www.diabet-1.ru



BIOSENSOR AN LLC

Medical products to be used in clinic and diagnostic labs, in healthcare centers and medical and preventive treatment facilities. Start of production: 1993. More than 38 product items are expected by 2016

Alcohol test



Alcohol test indicator strips are intended for fast visual determination of the presence of alcohol in the blood using saliva.

The test is highly specific!

Diabet- test



Diabet-test strips are designed for rapid visual identification and semi-quantitative assessment of glucose in the urine.

They are designed to detect the onset of the diabetes disease and its "hidden" course; they are used by people with diabetes to assess their condition, control the process of treatment and choose a diet.

CleanWater test



Clean Water test is designed to diagnose water for possible bacterial contamination or pollution with chemical fertilizers (nitrates and nitrites), for excess chlorine as a result of disinfection by chlorinating water, and to check for hardness and acidity (pH).

These test strips can test natural (sources, wells, etc.), drinking, and aquarium water.

When installing water filters, the water is tested before and after installation. The test allows you to determine when it is time to replace the filter.

Biosensor-Aqua-5



Biosensor-Aqua-5 test strips allow you to diagnose water for possible bacterial contamination or pollution with chemical fertilizers (nitrates and nitrites), for excess chlorine as a result of disinfection by chlorination of water, and to check for hardness and acidity (pH).

These test strips can test natural (sources, wells, etc.), drinking water, aquarium water, and control water in heating networks, etc.

When installing water filters, the water is tested before and after installation. The test allows you to determine when it is time to replace the filter.

There are from 25 to 100 test strips in the case.

Each of the five parameters can be ordered separately:

1. Biosensor-Aqua-GH: hardness
2. Biosensor-Aqua-pH: pH (acidity of water)
3. Biosensor-Aqua-Chlorine: active chlorine
4. Biosensor-Aqua-Nitrate: nitrates
5. "Biosensor-Aqua-Nitrite: nitrites

Products of Biosensor AN LLC have a Registration Certificates of the Russian Federation and other countries. The production of Biosensor AN LLC is certified according to ISO 13485-2011.

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www.diatest.ru, www.diabet-1.ru

Activities:

- Development and production of medical products for ensuring the general hospital activities of health care institutions with a trademark of *Caduceus*
- Provision of services in the design, construction and equipping of medical institutions
- Official dealer in the Russian Federation for the high-tech medical products of domestic and foreign manufacturers

WestMedGroup LLC works on the installation of gas distribution and air distribution systems in hospitals; more than 180 projects of various levels of complexity have been implemented. On the territory of the SEZ Dubna, the construction of production facilities for the production of medical products is under way.

Products of WestMedGroup LLC

Vertical stand for medical gas supply



Equipment for medical gas supply: resuscitation, operating, anesthesia, ward stands and additional elements (flowmeter-humidifier, vacuum regulator, shelves, aspirating tanks, etc.). The registration certificates are available.

Comprehensive Healthcare Solutions



The following medical products are planned for production and release:

- Medical beds and related products for the life support of patients
- Means of protection for the transport of infectious patients
- Gas supply systems for general hospital needs
- Equipment for transportation, storage and gasification of cryogenic liquids (oxygen, nitrogen, argon, methane, carbon dioxide)
- Ramps, high pressure reduction systems with automatic switching system for all types of gas
- Systems for monitoring and signaling the clinical and operational status of gases in pipelines and in source stations

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info@westmedgroup.ru, www.westmedgroup.ru



VIROBAN LLC

A Russian manufacturer of single-use medical products made of polymer materials

The manufacturing complex was established in the Dubna Science Town near Moscow in 2004, with participation of Delrus, a supplier of medical equipment and supplies for Russian public health.

Viroban manufactures reliable competitive products. The company's product range comprises more than 30 items and 174 varieties of medical products. The product portfolio is constantly expanding. All products are packaged in individual sealed bags that retain their operational and medical qualities for the entire shelf life.

The products under a brand name of Viroban are used in the practice of blood services, clinical laboratories, anesthesiology/resuscitation departments, different methods of treatment, and for general hospital needs. In the Russian market, Viroban provides their solutions for leukofiltration, collection and storage of the whole donor blood and blood components, aspiration and urological catheters, gastric probes, sets of lines for hemodialysis and other products.

Viroban LLC Products

Infusion solution devices



Extension pieces for infusion therapy and infusion splitters



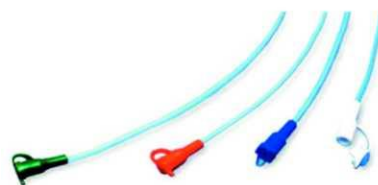
Devices are intended for intravenous administration of infusion solutions from polymeric containers or glass bottles at clinics, hospitals, and ambulance assistance. There are several device modifications manufactured.

Extension pieces are required for connecting syringe batchers and the device for vascular access to the patient or for the connection of several infusion systems.

Single-use gastric tubes for enteral nutrition



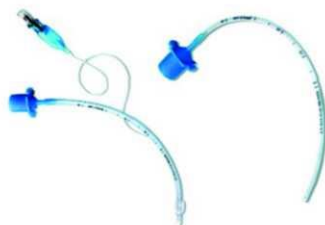
Single-use gastric tubes for adults and children



Single-use gastric tubes for adults and children are designed to wash the stomach, take samples and determine the amount of gastric contents, and to aspirate contents of gastrointestinal tract upper sections. They consist of a transparent tube with a closed distal end and an open proximal end in the form of a universal funnel-shaped connector.

The single-use gastric tubes are designed for enteral nutrition and drug administration.

Sterile single-use endotracheal tubes with/without collar



Endotracheal tubes are intended for short-term and long-term artificial ventilation of lungs, auxiliary ventilation, and inhalation anesthesia. They are made of thermoplastic inert material becoming soft, when affected by temperature, adapting to the anatomical data of the upper respiratory tract, while minimizing the pressure on the mucous membrane.

Contacts:

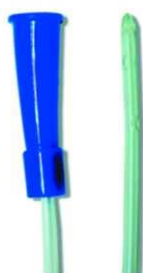
3a, Priborostroiteley Street, Dubna, Moscow Region,
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sekretary@viroban.ru

Aspiration catheters



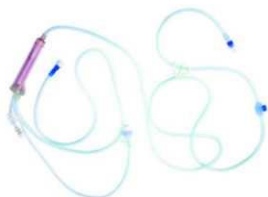
Urological catheters



Aspiration catheters are needed to aspirate the tracheobronchial secretion and sputum from the respiratory tract of patients on artificial pulmonary ventilation, as well as of those breathing independently across tracheostomy or an endotracheal tube.

Urological catheters are designed for patient's bladder catheterization for diagnostic or therapeutic purposes.

Hemodialysis lines



Hemodialysis lines are intended for use with hemodialysers and are a composite part of extracorporeal system providing the hemodialyzer input and output connection with a patient's vascular access device.

Venous and arterial fistula needle



Blood/blood substitute transfusion devices



Venous and arterial fistula needles are used in a medical institution for procedures requiring extracorporeal circulation of large blood volumes.

Devices for the transfusion of blood and blood substitutes are used for intravenous administration of blood and blood components to a patient from polymeric containers in health care institutions and ambulance service.

Plastic containers for blood



Apparatus for removing leukocytes from red blood cells



Plastic containers for blood are needed the procurement, storage and transportation of blood and blood components at health-care facilities and blood transfusion stations.

Apparatuses for removing leukocytes from red blood cells are intended to remove leukocytes from whole blood doses and erythrocyte media.

Viroban products are registered, have necessary permits and are available in Russian regions, CIS countries, including supply as part of the import substitution program.

Production processes are organized in strict accordance with the requirements of GMP standards. The company applies a quality management system validated by a certificate according to ISO 9001: 2008.

Products are manufactured in clean rooms to meet the stringent Russian and international requirements.

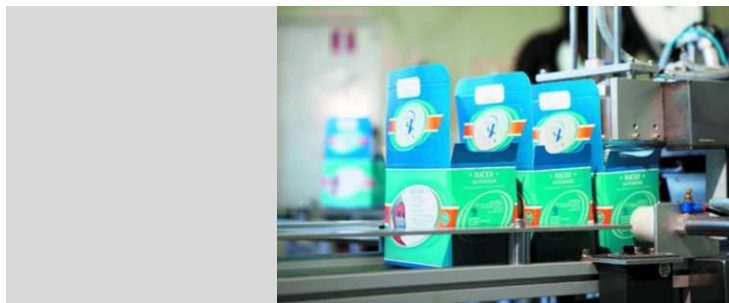
The area of clean rooms is more than 2,000 m². Constant values of temperature, pressure and humidity parameters are maintained in the rooms. A three-stage filtration system cleans the incoming air from dust and dirt to 99.5 % and ensures the maximum purity in industrial premises.

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Since 1998, it launched the production of finished products for medical and cosmetic purposes, as well as personal hygiene products. GC Gexa has more than 2,000 sq.m. of warehouses and production facilities in the science city of Dubna, Moscow Region.



The main production volumes focus on the production of disposable medical clothes and operating room drapes for medical establishments under the brand name of Gexa - medical products. Annually, the company builds production of more than 50 kinds of new products, many of which have a unique set of properties and characteristics.

This brand is very well established itself among the nation's leading experts in the field of surgery, ophthalmology, cardiac surgery, obstetrics, etc.

Products of Gexa – nonwoven fabrics

General purpose operating room drapes

General purpose operating room drapes with a sticky edge allow you to limit the operating field to the required size on any part of the body. Additional drapes to cover the furniture in sterile operating room.

Kit for limitation of the surgical field

KBO-1 is used for long operations and operations with a large number of liquids to be separated. Drapes to limit operational field made of durable waterproof material with high absorbency.

"Sterile operating room drape and clothing kit for operating rooms"

TS 9398-010-18603495-2010

RC №. FSR 2011/12250.

Cardiovascular surgery operating room drapes

Special drapes for restricting the operating field made of durable waterproof material with a high absorbency with additional absorbent zone around the surgical field. Optionally, drapes made of waterproof material for the instrument and operating table.

Kit for limitation of the surgical field

KBO-1 is used for cardiovascular operations.

"Sterile operating room drape and clothing kit for operating rooms"

TS 9398-010-18603495-2010

RC №. FSR 2011/12250.

Operating room drapes for urology and gynecology



KBO-5 kit for limiting the operating field is used for short-term operations in the position of the patient on the armchair.

"Sterile operating room drape and clothing kit for operating rooms"

TS 9398-010-18603495-2010

RC №. FSR 2011/12250.

Operating room drapes for neurosurgical operations

KBO-8 kit is used to limit the operating field.

"Sterile operating room drape and clothing kit for operating rooms"

TS 9398-010-18603495-2010

RC №. FSR 2011/12250.

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www.gexa.ru

Overalls



Beret-cap, „Plisse“and „Rondel” models



Surgical overalls

TM Gexa surgical overalls of various modifications are available. Innovative materials impart the bathrobe a variety of properties and make them comfortable to use. Production technology is welded joint without punctures the tissue.

140 cm long overalls fitted with Velcro, with a broad overlap on the back, are available. Lace lock on a sterile overall allows you to wear it so that the back has remained sterile. 120 cm long overalls fitted with a belt and two pairs of laces behind are available. The overalls sleeves are with soft knitted cuffs. Spunbond, CMC and woodenpulp fabrics have good air permeability. The fabrics are soft and easy to drape. The overalls are designed to work in operating rooms, observation and treatment rooms for minimally invasive procedures.

Procedural overalls

The overalls are equipped with front buttons, two pockets, and cuffed sleeves. The overalls of different sizes are manufactured.

“SK Gexa disposable sterile/non-sterile surgical overalls/drapes kit”

TS 9398-020-18603495-2009

RC № FSR. 2009/06234

Beret-Cap is a disposable item.

It can be used in hospitals and clinics as a headdress for the patient and medical staff. Large size of the cap provides comfortable use for lush hair. A soft elastic band securely fixes and leaves no trace on the face after extended wear. When folded, they are very compact and easy to store.

“SK Gexa disposable sterile/non-sterile surgical overalls/drapes kit”

TS 9398-020-18603495-2009

RC№ FSR. 2009/06234

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www.gexa.ru

The basis of the range – is high-quality syringes, infusion solution systems, microinfusion pumps, containers for bioassays, laboratory dishes, urinals, and consumables.

Germen Manufactory products

Three-component insulin syringe



Three-component tuberculin syringe



Three-component syringe for subcutaneous infusion of insulin has an integrated needle, allowing to avoid loss of insulin. The syringe is intended for injection of 100 units of insulin. It has a clearly visible scale. The maximum syringe volume is 1 ml. RUNo.FSR 2008/03547 of 27.05.2011g.

Three-component syringe for subcutaneous administration of tuberculin and other drugs in extremely small doses with a removable sterile needle has a clearly visible scale. The maximum syringe volume is 1 ml.

Registration Certificate № FSR 2011/11280 of 12.07.2011.

Three-component 2 ml/3 ml syringe



Syringe for injections, diagnostic punctures, and aspiration of pathological content of the cavities. This is a three-component syringe that has, in addition to the cylinder and piston, also a seal, which softens the movement, and neutralizes the force of friction. This advantage allows you to make injections painless, to administer the drug smoothly and without jerks. The syringe volume is 2 ml/3 ml. Registration Certificate № FSR 2008/03544 of 27.05.2011.

Three-component 5ml/10 ml/20 ml syringe



Syringe for injections, diagnostic punctures, and aspiration of pathological content of the cavities. This is a three-component syringe that has, in addition to the cylinder and piston, also a seal, which softens the movement, and neutralizes the force of friction. This advantage allows you to make injections painless, to administer the drug smoothly and without jerks. The syringe volume is 5ml/10 ml/20 ml. Registration Certificate № FSR 2008/03544 of 27.05.2011.

Infusion solution system



This system is used for transfusion of infusion solutions and blood substitutes from glass bottles and plastic containers, as well as for infusion of liquid preparations and solutions in the blood of human and animal body. Registration Certificate № RZN 2015/2654 of 15.05.2015.

Alarm Sensor

A unique product that detects the delivery of infusion solution and, in the event of a lack of infusion, signals the flow failure. The alarmsensor is required for patients who require long preparation of the continuous flow of the drug (in some cases up to five days).

Contacts:

4, Building 1, office 513, Business Center Tushinsky, Pokhodny Passage, Moscow

+7 (495) 374-72-48, info@germen-med.ru,

www.germen-med.ru

Microinfusion pump



Microinfusion pump is intended for prolonged, controlled and dosed administration of drugs to the patient, allowing the patient to move freely and do not depend on the power supply, while providing administering medication safely and comfortably. The volume is 100 ml/250 ml.

Registration Certificate № RZN 2016/3574 of 27.01.2016.

60 ml/120 ml bioassay container



60 ml bioassay container with a spoon



Containers are designed for sampling, bacteriological analysis, urine analysis, and feces analysis. The volume is 60 ml/120 ml.

One of the versions is equipped with a spoon-spatula for extra amenities in the collection of biological material when taking, for example, fecal specimens.

Registration Certificate № FCZ 2011/11241 of 18.06.2014.

Children urinal



Shoe covers



Children urinal is made of transparent polyethylene, provided with sticky hypoallergenic retainer and measurement scale. It can be easily attached to the body of the baby considering all the anatomical features, eliminates leakage, is removed quickly and painlessly.

Registration Certificate № RZN 2015/2640 of 05.05.2015.

Shoe covers are used mainly for hygienic purposes, to preserve the cleanliness of the premises from the street dirt. Declaration of 02.07.2015.

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FBIS SRCAMB

State Research Center for Applied Microbiology and Biotechnology, Federal Budgetary Institution of Science

The State Research Center for Applied Microbiology and Biotechnology, Federal Budgetary Institution of Science of the Russian Federal Service for Surveillance on Consumer Rights Protection and Human Welfare has already been engaged in the development and production of drugs for the diagnosis of infectious diseases more than 20 years.

The volume of production of microbiological nutrient media provides conducting 50% of all bacteriological studies in Russia.

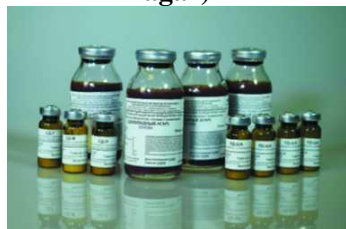
Products of the State Research Center for Applied Microbiology and Biotechnology Federal Budgetary Institution of Science



Dry culture medium for detecting *E.coli* and coliform bacteria (MacConkey Broth-GRM)



Culture medium for the isolation of pathogens of bacterial purulent meningitis ready to use (chocolate agar)



Dry culture medium for the isolation and cultivation of mushrooms (Sabouraud-maltose agar)



The Center produces:

- a wide range of nutrient media,
- express tests for detection and identifying pathogens of infectious diseases.

The Center's inventions are protected by patents.

The presence in the Center of the State Collection of pathogenic microorganisms and cell cultures allows for testing of the drugs using a large panel of pathogens, which ensures high specificity of diagnostic tools.

Dry culture media for:

- broad spectrum of microorganisms;
- identification of microorganisms;
- opportunists;
- *Corynebacteria*;
- pathogens of pertussis and medium for isolating cocci bacteria;
- causative agents of especially dangerous infections;
- control of microbial contamination of drugs;
- culturing and isolating bifidobacteria and lactobacilli;
- isolation of pseudomonads;
- *Listeria*;
- yeasts;
- mycobacteria of tuberculosis;
- determining the sensitivity of microorganisms to antimicrobials;
- Sanitary-bacteriological examinations and others.

Components of culture media:

- Hottinger Digest
- Martin Peptone
- Purified dry bile
- Cattle bile
- Pancreatic casein hydrolyzate
- Hydrochloric acid casein hydrolyzate
- Fish flour pancreatic hydrolyzate
- Fish flour sulfuric acid hydrolyzate
- Growth promoter for hemophilic microorganisms (black albumin enzymatic hydrolyzate)

Culture media ready to use (sterile):

- Nutrient agar for culturing microorganisms (meat-peptone agar);
- Nutrient broth for culturing microorganisms (meat-peptone broth);
- Nutrient agar for culturing microorganisms (Hottinger agar);
- Broth for cultivation of microorganisms (Hottinger Broth);
- Nutrient medium for cultivation of fungi (Sabouraud broth);
- Nutritional medium for cultivation and counting the total number of yeasts and mold fungi (Sabouraud Agar)

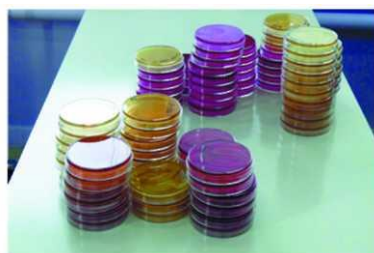
Contacts:

Obolensk Township, Serpukhov District, Moscow Region

+7 (4967) 36-01-16, 31-21-65, 31-21-37, 21-21-19. info@obolensk.org, info@sredy-obolensk.ru, www.obolensk.org, www.sredy-obolensk.ru



Nutrient media inoculated with test strains of microorganisms



- Nutrient medium for cultivation of bifidobacteria (Blaurock medium);
- Nutrient medium for growing coccal group bacteria (sugar broth);
- Nutrient medium for culturing and isolation of *Haemophilus influenzae* (*Haemophilus* agar);
- Nutrient medium for cultivation and isolation of tularemia microbe;
- Nutritional medium for isolation of pathogens of pyogenic bacterial meningitis (chocolate agar), etc.

Express-tests for detection and identification of infectious agents: anthrax (*B.anthraxis* IC test), causative agent of plague (*Y.-pestis* IC test), causative agent of tularemia (*F. tularensis* IC test), 01 group *V. cholerae* (*V.cholerae* OT IC test), *Listeria* (*Listeria* spp IC test) and *Legionella* (*L. pneumophila* 1 IC test), *Listeria* and *Legionella* in the latex - agglutination reaction, liquid (latex *Listeria monocytogenes* test *Lpneumophilaserotype* 1), causative agent of hemorrhagic colitis, *Escherichiacoli* 0157:H7, in the latex agglutination reaction, liquid (*E.coli* 0157:H7 latex test), Shiga toxin- producing *Escherichiacoli* O104:H4 strain in the latex agglutination reaction, liquid (*E.coli* O104:H4 latex test), purulent meningitis bacterial pathogens: *Haemophilus influenzae*, type B, *Streptococcus pneumoniae*, *Neisseria meningitides*, type A, *Neisseria meningitides*, type B, *Neisseria meningitides*, type C, *Neisseria meningitides*, type W135 in the latex-agglutination reaction, liquid (latex GBM test).

Kits for the detection of DNA of enterohemorrhagic *E.coli* 0157 using the PCR (TEK-0157), DNA fragments of *E.coli* O104:H4 markers using the PCR (TEK-O104), causative agents of plague, anthrax and tularemia using the PCR in real time (MULTI-FLU), etc.

State Collection of Pathogenic Microorganisms and Cell Cultures (SCPM-Obolensk):

SCPM-Obolensk is a dedicated collection, whose main activities are the collection, storage and study of pathogenic bacterial strains, as well as phages, fungi and cell lines.

The Collection provides the following services:

- Deposit (including for the purposes of national patent procedure) of different microorganisms;
- Identification and study of microorganisms;
- Providing test strains (test-cultures, control strains, reference strains, and standard reference strains) intended for quality control of nutrient media.

The quality of products produced by the Institution is assured with international certificate of the quality management system as per ISO 9001:2011 and ISO 13485:2011.

Today 67 culture media and 26 rapid tests are registered.

Contacts:

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Joint Stock Company "DIAKON-DS" is a high-tech, science-based manufacturer, which manufactures products of international quality at affordable prices for domestic consumers. The main business of the company is production of ready to use liquid stable reagents for *in vitro* diagnostics. Reagent production is based on national practice of clinical laboratory diagnostics, taking into account the specificity of instrument equipping of the most of domestic laboratories and, most importantly, long-term contact with customers.

Currently JSC "DIAKON-DS" is a well-known domestic manufacturing company on the market in Russia and CIS with its own manufacturing facilities, which has international manufacturing technology, its own research base, a high level of technological equipment at all stages of manufacturing process, which produces products of international quality at reasonable prices for domestic consumers.

Since 1998, from the date of its foundation, the company annually introduces new effective analytical systems to the IVD market and at the same time pays great attention to the improvement of already manufactured products and development of new business directions.

The quality of products produced by JSC «DIAKON-DS» is confirmed by the certified management system according to international and Russian standard ISO 13485. In March of 2014 our company received the CE mark and the right to sell the products in the European market.

The company successfully participates in the system of external quality control program EQAS, conducted by Bio-Rad Laboratories (USA), and included in the hundreds of the best companies among the tens of thousands of participants of this program. From 2014 DIAKON-DS participates in the domestic system of external quality control FSVOK (Russia).

Effective management, high-tech production and scientific potential of our company allow us to meet the needs of the most demanding customer. The main objective of the company is to provide diagnostic laboratories with demanded high-quality products at affordable prices, which can satisfy the needs of every laboratory.



PRODUCT LIST

Reagents for clinical chemistry



Currently the Company manufactures and sells 47 names of «DDS» line reagents, produced on its own technology, designed for use on semi-automatic biochemical analyzer.

- Liquid and ready for use, there is no need to spend time on their preliminary preparation;
- All procedures are performed in monoreagent format, obtained by mixing reagent 1 and reagent 2 in the ratio 4 + 1;
- Working reagents are characterized by high stability after mixing (from several days to several months), they can be stored and used within the specified time;
- Analytical characteristics of the reagents guarantee the quality of parameters measurement on hand photometers and semiautomatic devices.

Contacts:

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+7 (495) 980-63-38, 980-63-39 dds@diakon-ds.ru



23 names for "DiaS" line of reagents in the system bottles for use on automated analyzers (Furuno, Dirui, BioSystems, Konelab, Mindray, Sapphire, Olympus).

- Convenience of the reagents loading on the analyzer board;
- Convenient packaging for mono- and bi- reagents;
- Efficiency (simultaneous consumption of Reagent 1 and Reagent 2);
- Absence of contamination in vials;
- More stable and reproducible results.

Every kit has a registration certificate issued by Federal Service of Health Care (Roszdravnadzor)

Liquid stable coagulation reagents



- Liquid reagents - fully ready for use, do not require prior manipulation before work
- The tests are intended for use, both on semi-automatic and automatic coagulation
- Stability after opening – 30 days

Hematology reagents



- Production according to Swedish technologies from Labex Reagents AB in the Russian Federation
- The quality management system of JSC "DIAKON-DS" complies with the Russian and international standard ISO 13485
- The reagents are stable liquid solutions that do not contain sodium azide and are ready for immediate use
- Shelf life of the reagents in a closed container is 24 months (except: LAB PAK, Renz Conc, Hemarenc Plus - 12 months, Chemclean - 18 months)
- Stability of the reagents after opening - 60 days (except: Hemarenc Plus, Renz Conc - 90 days)

Semi-automatic biochemical analyzer clima mc-15



Throughput:

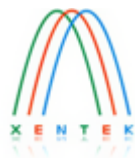
- more than 200 tests / hour by kinetic method
- more than 300 tests / hour by the end point method

High-throughput semi-automatic biochemical analyzer Clima MC-15 is designed for high-precision biochemical studies by absorption and immunoturbidimetry methods.

Modes: simultaneous measurement of 15 samples per parameter, measurement of different samples by different parameters or measurement of one sample by 15 parameters.

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DUBNA-BIOFARM LLC

For over 15 years, the Company has been holding a strong position among the manufacturers of medical devices used in ophthalmology, dentistry, oral hygiene

Development and implementation of the latest techniques in the field of medical devices is the overriding principle of the Company, along with honesty and openness in relation to partners.

Dubna-Biofarm LLC is a part of the group of XENTEK research and manufacturing companies, is one of the leading providers of ophthalmic surgery biomaterials of new generation based on bone xenocollagen.

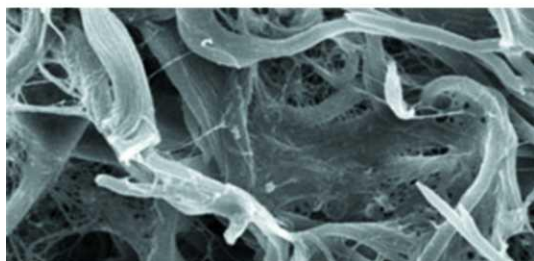
Dubna-Biofarm LLC products

Sterile XENOPLAST, a bone xenocollagen based material



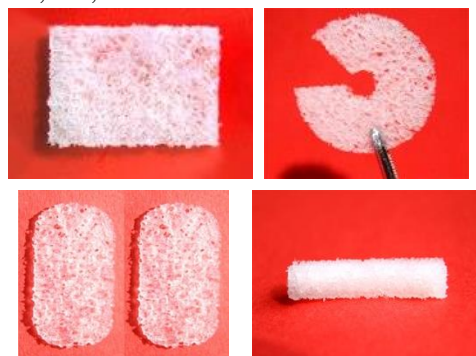
XENOPLAST is made of biomaterials using special sterile XENTEK technology. The material is intended for use in conditions of hospitals and dedicated centers during scleroplasty, surgical treatment of macular degeneration, glaucoma surgical treatment, surgical treatment of retinal detachment, and during plastic eye orbit bone defects.

To manufacture the XENOPLAST material, only xenocollagen is used, which initially rules out the presence in the material of the hepatitis viruses and HIV. The XENOPLAST material combines quality of structure, plasticity and elasticity, which allows the surgeon to ease the material manipulations. The porous material structure provides a good contact of the implant with the eye tissues preventing unwanted arbitrary movement of the material in the work area.



To the left: ultrastructure of demineralized bone collagen corresponds to the structure of native spongy bone collagen

Scanning electron micrograph, magnification: 12,000, 10 eV



XENOPLAST forms produced

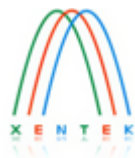
XENOPLAST: characteristics of the forms produced:

- Plates (10,0 x 20,0 x 1,0 mm \pm 0,2 mm; 10,0 x 50,0 x 1,0 mm \pm 0,2 mm; 30,0 x 40,0 x 1,0 mm \pm 0,2 mm)
- Disks (5,0 x 5,0 x 1,0 \pm 0,2 mm, 8,0 x 8,0 x 1,0 \pm 0,2 mm, 10,0 x 10,0 x 1,0 \pm 0,2 mm; 15,0 x 15,0 x 1,0 \pm 0,2 mm; 20,0 x 20,0 x 1,0 \pm 0,2 mm)
- Discs with foot (disc diameter: 10,0 \pm 0,2 mm; foot dimensions: 25,0 x 1,0 x 1,0 \pm 0,2 mm)
- Strips (10,0 x 50,0 x 5,0 \pm 0,2 mm). Registration Certificate №. FSR 2007/01010.

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DUBNA-BIOFARM LLC

For over 15 years, the Company has been holding a strong position among the manufacturers of medical devices used in ophthalmology, dentistry, oral hygiene

OKVIS, sterile eye tissue protector



OKVIS eye tissue protector is a new prolonged effect keratoprotector drug based on sulfated glycosaminoglycan (sGAG) chondroitin sulfate. It is designed to fit the research in the field of ophthalmic use of sulfated glycosaminoglycans.

The 2,0% OKVIS protector is intended for use in ophthalmic surgery in the preoperative preparation for surgery for cataract extraction, the early postoperative period, in preparation for laser surgery, intraocular lens implantation after the early postoperative period, before and after penetrating keratoplasty and other surgical interventions on eyes. The 2,0 % OKVIS has a high transparency with a refractive index of about 1,38, the refractive index differs from that of the aqueous humor. The viscous OKVIS viscoelastic properties (Brookfield viscosity being of not less than 20,000 mPa / s) can create space volume in the anterior chamber and capsular bag sufficient for free manipulation of the ophthalmosurgeon.

The OKVIS 0,3% protector is designed for sustained recovery of comfort in the case of the "dry eye" syndrome.

Options:

- sterile 0,3% OKVIS in a plastic vial of 5,0 g,
- sterile 2,0% OKVIS in a plastic vial of 5,0 g,
- sterile 2,0% OKVIS in a syringe of 1,0 g, sterile 2,0% OKVIS in a syringe of 2,0 g

Registration Certificate № FSR 2012/13352

Glykodent Dental Gel



Glykodent gel is made based on water-soluble derivative of cellulose and chondroitin sulphate with the addition of the amino acid of L-arginine and natural hydroxyapatite. It is designed for use in dentistry to protect tissues and oral mucosa from the damaging effect of instruments during and after surgical procedures, for preventing parodontitis, gingivitis and stomatitis of adults and children. The presence of chondroitin sulfate increases the speed of reparative processes in periodontal tissues promoting the normalization of vascular microcirculation.

Options:

- sterile gel in the package of 4 syringes of 1,0 ml
- sterile gel in the package of 2 syringes of 2,5 ml.

Registration Certificate № FSR 2008/01638.

Products of Dubna-Biofarm LLC is presented in the market of health care products in more than 10 regions of this country. Our Company cooperates with the largest networks of pharmacies, such as Samson-Pharma, IFK Pharmacies LLC, Home Medicine LLC, Farm-Service LLC, Vita Line LLC and others.

Products are supplied in large ophthalmosurgery centers of this country, including the branches of the IRTC Eye Microsurgery named after Academician S. N.Fedorov.

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ISTOK, ENGINEERING AND IMPLEMENTATION TYPE SPECIAL ECONOMIC ZONE, RESEARCH AND PRODUCTION CORPORATION ISTOK NAMED AFTER A.I. SHOKIN JSC RPC Istok n.a. Shokin



ISTOK, ENGINEERING AND IMPLEMENTATION TYPE SPECIAL ECONOMIC ZONE was created by the Russian Government Decree No. 1538 of December 31, 2015, without the involvement of public investment, on the basis of Russia's leading company in the field of microwave electronics JSC RPC Istok n.a. Shokin.

The purpose of establishing the SEZ is to provide conditions for the conduct of research and development, prototyping and production of pilot batches of high-tech products in accordance with the priorities of the scientific and technical and innovation activities, experimental developments, including medical products.

RESEARCH AND PRODUCTION CORPORATION ISTOK NAMED AFTER A.I. SHOKIN (JSC RPC Istok n.a. Shokin) was founded in 1943 and is located in the town of Fryazino, Moscow Region, Russia.

The main activities of the company are new developments and serial production of state-of-the-art and advanced products of microwave electronics for all communications and radars.

The enterprise has closed-circuit development and manufacturing processes for microwave transistors, monolithic integrated circuits, microwave modules of any functional complexity, vacuum microwave devices and complexed microwave devices based on them, electronic equipment and its component parts.

Products of JSC RPC Istok n.a. Shokin

The enterprise manufactures serial products, including medical devices: equipment for EM hyperthermia. The customers of the medical products are cancer research institutes, cancer centers, and oncological dispensaries. The geography of sales is the Russian Federation, and the Netherlands.

Installation for local microwave hyperthermia of malignant tumors with the Yacht-3 system for automatic temperature stabilization in exposure



External contact applicators

The Yacht-3 application is oncology. The installation allows you to increase significantly the efficiency of complex treatment of cancer patients: skin cancer, breast cancer, soft tissue, throat, neck, rectum cancer, and the treatment of prostate cancer of oncological and nononcological nature by creating hyperthermic temperature level in the object to be irradiated.

Registration certificate No. RZN 2016/4474.

Yacht-3 main specifications

Parameters	Unit	Values	
Operating frequency	MHz	915 ± 12,8	
Output power	W	5 -180	
Temperature measurement accuracy	°C	± 0,3	
External applicator dimensions	mm	35 x 40, 80 x 70, 130 x 100, 150x130, Ø 150 mm	
Intracavitary applicator diameter	mm	Directional 18	Circular 7,10,15
Intracavitary applicator opening angle	°	Directional 140	Circular 360
Applicator heating zone length	mm	Directional 40	Circular 40, 80

Contacts:

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+7 (495) 465-86-47.

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JSC RPC Istok n.a. Shokin, 2a,
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www.istokmw.ru, info@istokmw.ru

Yacht-4 installation for local microwave hyperthermia of malignant tumors



External flexible contact applicators



Flexible intracavitary applicator



Directional intracavitary applicator



YACHT-4

Yacht-4 main specifications

Parameters	Unit	Values	
Operating frequency	MHz	433,92 ±8,68	
Output power	W	5 - 200	
Temperature measurement accuracy	°C	± 0,3	
Number of simultaneously monitored temperature points	pieces	Up to 18	
External applicator dimensions	mm	80x200; 150 x160; 220x300; 210x200; 210x300	
Intracavitary applicator diameter	mm	Directional 18	Circular 7,10,15
Applicator heating zone opening angle	°	Directional 140	Circular 360
Applicator heating zone length	MM	Directional 40-50	Circular 80,150

The "Yacht-4" application - oncology. The installation can significantly improve the efficiency of combined treatment of patients with cancer: breast cancer, soft tissue, larynx, esophagus, osteosarcomas, neck, rectum and treatment of prostate diseases by creating hyperthermic temperature level in the irradiated volume of the tumor. Registration certificate number RZN 2016/4516.

Contacts:

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www.istokmw.ru, info@istokmw.ru



Yacht-5 installation for local, regional, and general EM hyperthermia for combined treatment of cancer patients



Regional heating applicators



Induction applicators



Flexible contact applicators

The *Yacht-5 application* is oncology. The Yacht-5 installation is designed for complex treatment of cancer patients with generalized form of tumors with multiple metastases.

Registration certificate No. RZN 2016/4476.



Yacht 5 main specifications

Parameters	Unit	Common heating	Regional heating
Operating frequency	MHz	13,56 ± 0,068	40,68 + 0,023
Output power	W	50-800	50-350
Emitters		Built-in coplanar applicator	2 inductive applicators 2 flexible coplanar applicators
Temperature measurement accuracy	°C		±0,3
Catheter sensor diameter	mm		0,8

Contacts:

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Medintech LLC products

Meditech LLC products are used in the departments of physiotherapy and rehabilitation in the health facilities, sanatorium organizations, and at home.

MIT-31 combined device, PHISIO model



MIT-31 combined device is intended to implement innovative technologies for the treatment of patient and disabled persons based on multilevel polyfactorial exposure method using physiological principles of the patient organism. The MIT-31 device uses a low-frequency ultrasound, magnetic field and optical flow with the possibility of their modulation with physiotherapeutic frequencies of organs or their functional systems.

It can be used in the system of television and personalized medicine. The following procedures may be performed using the device:

- Galvanic and pulsed electrophoresis of two zones simultaneously
- Drugs electroporation
- Electrosleep and transcranial electroneurostimulation
- Micropolarization and lateral therapy
- Percutaneous electroneurostimulation and electric frequency therapy

MIT-EL2 two-channel electrotreatment device



MIT-EL2 device is most effective in the treatment of:

- Disorders of the peripheral nervous system (intercostal neuralgia, sciatica)
- Traumatic injuries
- Functional disorders of the central nervous system
- Diseases of the cardiovascular system
- Diseases of the digestive system
- Diseases of musculoskeletal system, rheumatic joints, and tendons
- Mental and behavioral disorders.

MIT-S singlet-oxygen therapy device



MIT-S device is intended for preparation of singlet-oxygen mixture by the activation of distilled water vapor with ultraviolet irradiation in a static magnetic field and an additional activation with optical red spectrum flow. The resulting mixture is used for singlet-oxygen inhalation, activation of water (aqueous solutions), and preparing food singlet-oxygen cocktails or foams.

ZHIVA hardware and software rehabilitation system



ZHIVA hardware-software rehabilitation system is designed to implement highly effective way of slowing down the aging process, the extension of active longevity, health preservation, as well as medical rehabilitation of patients and disabled persons based on the processing of personal parameters of the electrical signals that are perceived on the reflex zones of the human skin.

As therapeutic factors, the individually generated signals for electroneurostimulation are used. Additionally, the magnetic therapy programs, programs for phonotherapy, and color therapy and xenotherapy are formed.

MIT-VAC wound surface vacuum absorption device



MIT-VAC device is intended for treating wounds by vacuum treatment of the wound surface or VAC-therapy (vacuum-assisted closure). This is a highly effective method of treatment of wounds based on prolonged local effect of the negative pressure on the wound. Wound cure is combined with further treatment with ozone, magnetotherapy, blood over-vein irradiating, and electrosleep or analgesic therapy.

Indications for use of VAC-therapy:

- Chronic and acute wounds
- Bedsore
- Diabetic and neuropathic ulcers
- Venous and arterial ulcers
- Open wounds of the abdomen and chest
- Fixation of skin grafts.
- Burns

See the declaration of conformity of Medintech LLC product at: www.ritm33.ru

Contacts:

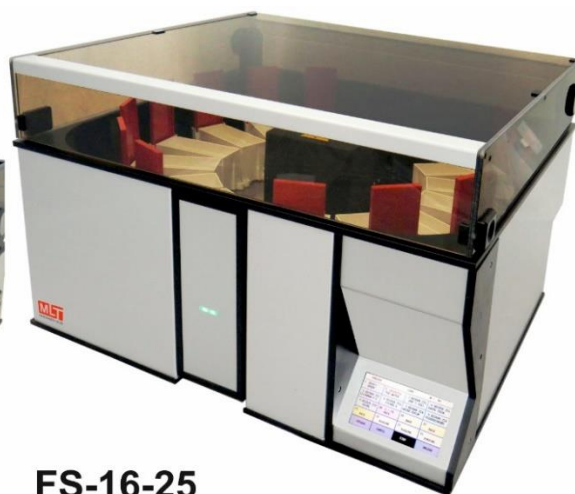
4, building 4, premises 225, Programmistov Street, Dubna, Moscow Region,
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AUTOMATED PROGRAMMABLE SLIDE STAINERS

MLT FASTAINER.COM



FS-16-12



FS-16-25

**FAST, COMPACT,
VERSATILE, EFFICIENT &
ECONOMICAL**

- **HEMATOLOGY**
- **MICROBIOLOGY**
- **CYTOLOGY**
- **HISTOLOGY**

Design and algorithms of operation

There are two modifications of device: FASTAINER-16-25 (FS-16-25 – 16 stations and racks for 25 slides) and FASTAINER-16-12 (FS-16-12 – 16 stations and racks for 12 slides).

The staining of preparations is performed by sequential programmed movement of racks with slides from station to station where technological operations are fulfilled.

Working chamber is enclosed by transparent lid and is equipped with compulsory ventilation, which ensures the safe working with toxic reagents.

There is one station (#1) for drying (heating) with warm air flow, one station (#2) with flow-through trough (tap water), and one station (#9) for automated loading and unloading of racks with slides (only for Fastainer-16-25).

The remaining stations are versatile – they allow to use them either for placement of troughs with liquid reagents or for placement of racks with slides. That gives the possibility to create an optimum configuration of device for each technique and even for each laboratory.

The device possesses extremely simple and reliable unique mechanics. The movement of racks with slides is executed by rotation not only in the horizontal plane, but also in up and down direction. When the rack rises from a liquid, it automatically inclines at the same time. Moreover, the rack rises from liquid with vibration. It facilitates draining of liquid from slides and the rack. Thus, the transfer of reagents between troughs is very low. Design of the manipulator mechanism provides fixing of a rack due blocking up of its handhold in case of rise. Rigid fixing of rack handhold gives the possibility to use high-speed modes of movement (during dipping, shaking, transfer from station to station and so on).

Control and programming is carried out with the color touch screen. Not only the sequence and duration of technological operations can be programmed, but also their parameters and regimes. For example, technological operations can be executed with activation with the different period, without activation and also by repeated dipping. The activation gives possibility to speed up different physical and chemical processes during technological operation. There is an option to set up the "draining time" for every station (the duration of delay of rack over trough after rise from the one).

The setting up of duration of time between launches of racks processing gives possibility of processing of several racks simultaneously.

There is also the possibility of the multiple increases in productivity due to installation of several troughs with reagent in which the longest technological operation is executed. Thus, FASTAINER gives several opportunities to make FAST the process of staining.

The number of stations is enough for providing most complicated techniques, such as Papanicolaou stain or different histological methods, H&E, particularly. The simple techniques: Romanowsky, Gram staining and so on, can be executed with high productivity. The productivity for Papanicolaou stain, for example, may be up to 150 slides per hour.

All these characteristics make both devices very versatile and efficient, despite their compactness. The unique simplicity of mechanics makes the devices quite reliable and cost effective.

Contacts:

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+7 (495) 287 81 00; Fax: +7 (495) 287 84 00

mlt.llc@mail.ru , 2878100@mail.ru ; www.fastainer.com , www.mlt.ru , www.stainer.ru

Technical data

Overall number of stations	16
Including:	1 drying station (adjustable temperature from +40° C to ~ +60° C) 1 station with flow-through trough (tap water) 1 loading / unloading / parking station (only FS-16-25) 13 versatile stations (for troughs with reagents or for racks with slides parking)
Number of slides in rack:	FS-16-25 25 slides FS-16-12 12 slides
Volume of reagent in troughs:	FS-16-25 250 ml ; FS-16-12 100 ml
Max. number of staining protocols:	32
Max. number of program steps:	30
Free choice for each technological program:	Interval of slide rack processing launch ("interval"); configuration (arrangement of reagent troughs and "parking" stations (stations for slide racks), number of troughs with reagents for most long treatment.
Free choice for every step:	Reagent, station, time (0 sec – 59 min 59 sec); activation period (1 - 99 sec); draining time (0 - 99 sec); number of repeated dipping (1 - 99).
Safety	The extraction device with connection to an external ventilation system. Connection with charcoal filter also possible. Electronic sensor to avoid working with the open lid, the overflow sensor in flow-through trough and so on. The water consumption control device with solenoid valve.
Dimensions (L / W / H)	FS-16-25 600 × 540 × 400 mm FS-16-12 460 × 520 × 330 mm
Weight	FS-16-25 25 kg FS-16-12 17 kg
Power supply	230 V / 50 Hz / 400 VA

WHY FASTAINER IS FAST?

- Installation of compact and lightweight devices is easy & quick.
- Fastainer is ready to work in several seconds after switching on.
- Programming of device is user-friendly, easy and fast.
- Rigid fixing of rack handhold in manipulator arm gives the possibility to use high-speed modes of movement (during dipping, shaking, transfer from station to station).
- Activation and dipping modes of staining (or washing and so on) give possibility to speed up physical & chemical processes during technological operation.
- Reagent draining time is low because of inclination of racks and racks rising up with vibration.
- There is possibility of parallel processing of two or three racks, especially with installation of several troughs with reagent in which the longest technological operation is executed.

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INNOVATIVE MEDICAL TECHNOLOGIES RESEARCH AND PRODUCTION ASSOCIATION LLC

The company is registered in the science town of Dubna in 2010. Since 2011, it has been a SEZ Dubna resident.

The main activities are design, development and introduction into clinical practice of innovative high-tech medical equipment and software, including those non-analogues in the world.

Company products:

- Software for doctors of various specialties,
- Automation systems and data storage systems for medical institutions,
- Systems for electronic health records,
- Manufacturing of electronystagmographs, electrooculographs, and videooculographs



Vestibular function study using hardware and software system



Priority activities are the introduction into clinical practice of the Vestibuloscan-Oculostim-KM hardware-software system. It has been developed in collaboration with the Laboratory of Vestibular Physiology SSC IBMP RAS. The hardware-software system functionality is unique in the world.

The methodology author is Lyudmila Kornilova, the professor, doctor of medical sciences, who was awarded the State Prize of Russia in the field of science and technology.

The principle of the method is experimental induction of the test subjects of abnormal illusory (dizziness) and sensory-motor (nystagmus) reactions.

The possibility of the use of the Vestibuloscan-Oculostim-KM hardware-software system in the departments of health care facilities are general therapeutic, functional diagnostics, neurological, ENT, psychosomatic, psychiatric, psychotherapeutic and rehabilitation centers.

High economic efficiency of the use of the Vestibuloscan-Oculostim-KM hardware-software system does not require the creation of special conditions in the room. It provides a low level of power consumption.

At full load with patients, the average payback period will be 3 to 5 months, with the partial load it will be 5 to 18 months (depending on the installed cost of the study).

Functionality of studies using the Vestibuloscan-Oculostim-KM hardware-software system:

- Nistagmografiya (nystagmus spontaneous, optokinetic, vestibular, etc.)
- Spontaneous oculomotor activity
- Tracking function of the eyes (static and Dynamic saccade, fixation and holding eye, smooth tracking)
- Illusory reaction (vection)
- Perception of subjective optical vertical
- Dynamic vestibulo-ocular response (vestibular reactivity)
- Vision tests
- Vestibular tests

The cost of hardware and software system is 1,490,000 rubles (3-year warranty, technical support, commissioning and training of doctors and medical staff.)

Our partners: First Sechenov MSMU, SRC RF IBMP RAS, Veyn Headache Clinic, Gagarin Cosmonaut Training Center FBSU, the European Space Agency (ESA), University of Antwerp (UA Belgium), Institute of Medical Psychology, Magdeburg (Germany) and many others.

Contacts:

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POLYMER CLOSED JOINT-STOCK COMPANY

Established in the city of Elektrostal, Moscow Region, in 1988

The main activities of the company are production of polymer products for the needs of Russian Railways JSC, and manufacture of health care products (since 2012): containers for biomaterials (for analysis samples) in the range, including sterile ones. For customers, sterile products are produced; individually wrapped containers undergo radiation sterilization.

The company team includes doctors and candidates of chemical sciences and engineering, experienced professionals engaged in scientific development, laboratory and operational tests and product quality assurance.

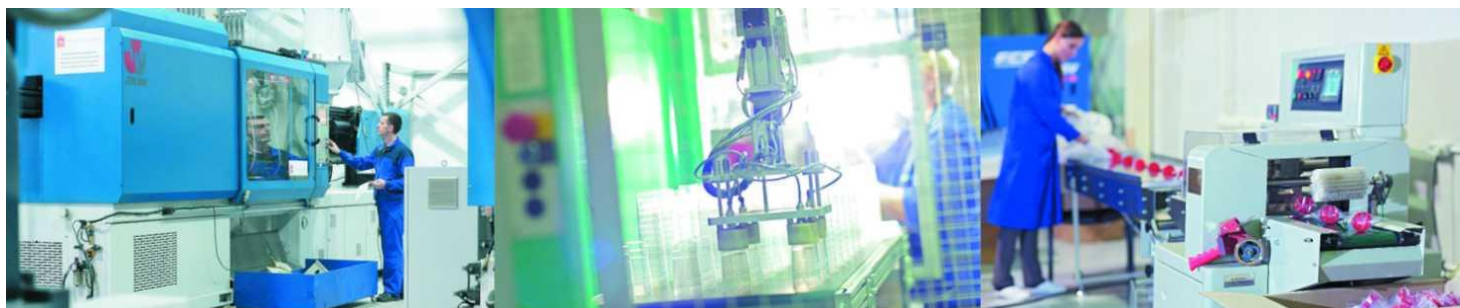


Vladimir Akimov, CEO



Andrei Vorobiev, the Moscow Region Governor, visited Polymer CJSC on a working visit

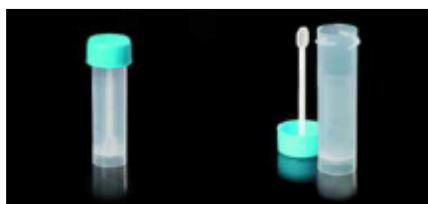
The company has a fleet of modern equipment, which includes injection molding machines equipped with a highly intelligent control system, a fully automated workflow, advanced molds fitted with hot runner injection systems, which provides a completely waste-free production.



29 injection molding machines for injection molding with a clamping force of 150 to 400 tons. The robotic removal of the products is provided when molding thin-walled articles using such high-speed injection molding machines, as FCS AF - 200 and Arburg ALLrounder470 C Golden Edition. The auxiliary equipment performs the automatic assembly of the individual components of products (screwing caps on container bodies, stacking the spoon into the container body). The ALD-450X horizontal packaging machine packages the finished products in the FLOW-CANCER type packages. Product volume can reach 1.0 to 2.5 mln pieces per month depending on the product name. Container quality corresponds to foreign analogues.

Polymer CJSC products

30 ml container



Container is fitted with a sealed screw cap without scale, with a working volume of 30 ml, with a matt area for labeling, with a spoon. It is made of ultrapure polypropylene.

One of the features of the containers is a conical bottom, which makes them indispensable in scatological studies (fecal analysis) and allows using of urine according to the Nechiporenko method (urine sediment test). The containers have a stability "skirt" that allows you, despite the conical bottom, to handle them without using a tripod.

Contacts:

5, Zheleznodorozhnaya Street, Moscow Region, Elektrostal

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POLYMER CLOSED JOINT-STOCK COMPANY

Established in the city of Elektrostal, Moscow Region, in 1988

100 ml container



100 ml container is made from ultrapure polypropylene fitted with a sealed screw cap, with a scale in milliliters and ounces, with a matt area for labeling; the total volume is 125 ml, the recommended working volume is 100 ml. The most commonly used to collect general clinical analysis of urine

90 ml container



Histological container is made from ultrapure polypropylene screw cap tightly, fitted with a scale in milliliters, with a matt area for labeling; the working volume is 90 ml.

A special thread provides the container with increased tightness allowing to make the pneumatic transportation pathomorphologic specimens taken in formalin, alcohol or other fixatives.

60 ml container



Container is fitted with a sealed screw cap, with a matt area for labeling, with a spoon, without scale; the working volume is 60 ml. It is made of ultrapure polypropylene.

This type of containers is considered universal, because it is used for taking samples of the widest spectrum: urine, feces, sputum, cerebrospinal fluid (spinal fluid), exudative fluid, pathomorphologic material, etc.



Currently, the following tools for the production of plastic components are developed and being manufactured in cooperation with Eyliton:

- Body and cap for vacuum tubes for the collection of venous blood
- Body, the two caps and capillary tube for capillary blood test tubes.

Registration numbers for these products you can find at the site of Eyliton: www.ap-skld.ru/eylton.htm, unimedao.ru/tag/622-Eyliton

Polymer centrifugal Eppendorf microtubes with conical and spherical bottom



Polymer CJSC is working on making appropriate documentation and pre-production for the manufacture of polymer centrifuge type Eppendorf microtubes with conical and spherical bottom.

Double-sided needle for venous blood collection



As a long-term activities of the company, as part of the import substitution program, the project of the production of a double-sided needle for venous blood collection is underway.

After completing the registration stage: Registration Certificate at: www.ap-skld.ru/eylton.htm, unimedao.ru/tag/622-Eyliton

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Pulsar Engineering LLC is a team of highly qualified professionals with specialized engineering education in the field of biomedical engineering that develops and manufactures high-tech modern medical devices.

Our mission is to promote the development of the domestic medical industry.

The goal is the production of safe, efficient, competitive and affordable domestic medical equipment.

Our advantages:

- Specialization in biomedical engineering
- Experience of staff in the development of and manufacture of medical products for over 10 years
- Scientific and technical expertise

Our activities:

- Production of medical equipment
- Implementation of R & D in the field of medical technology
- Carrying out of patent research
- Verification of the reporting scientific and technical documentation

Products of Pulsar Engineering LLC

Svetlyachok UV irradiator

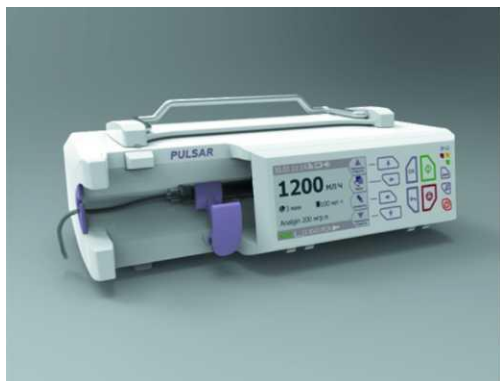


Svetlyachok ultraviolet irradiator is intended for therapeutic use for general, local, and intracavitary irradiation with infectious, infectious-allergic, inflammatory, traumatic diseases and injuries. There are two versions: mobile and stationary.

It is used in the inpatient and outpatient healthcare facilities, health centers, dispensaries, and at home.

Registration certificate № RZN 2016/5148 of 19.12.2016.

Syringe dispenser and infusion pump



Syringe dispenser and infusion pump are used for dosed administration of drugs or nutrients in liquid form, with adjustable total volume of administration and the volume flow; they are also used to improve the safety of infusion therapy procedure and its maximum simplification and automation.

Syringe dispenser and infusion pump are designed for equipping hospitals, maternity hospitals and other health facilities and will be used for infusion in intensive care, anesthesiology, surgery, intensive care, oncology, and so forth.

Syringe dispenser and infusion pump are in the registration stage.

Our customers are government and commercial health facilities and network of pharmacies of the Russian Federation.

Contacts:

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+7 (495) 150-20-15 info@puls-e.ru , www.puls-e.ru

Ailiton LLC, a part of Unimed Group of Companies, was set as a developer and manufacturer of equipment and consumables for clinical diagnostics laboratories in 2003. Today the company has 147 employees. These are people who produce vital and essential blood collection systems, urine analyzers, biochemistry analyzers, biochemistry reagent kits and other devices for clinical diagnostic laboratories.

Ailiton LLC team consists of graduates from such higher education institutions as N.V. Lomonosov State University, Moscow Institute of Physics and Technology, Moscow Engineering Physics Institute, N.E. Bauman Moscow State University of Technology, Moscow Aviation Institute, I.M. Sechenov Moscow Medical Academy, N.I. Pirogov Russian National Research Medical University. Our company is proud of its unique team of 30 science and technology specialists which has been built for 14 years. The Head and Leader of our team is Mr. Alexander Shibarov, one of well-known and respected specialists in IVD, General Secretary of the Russian Association of Medical Laboratory Diagnostics, a member of the board of directors of the Association of Clinical Laboratories Diagnostics Devices Manufacturers, Doctor of Physical and Mathematical Sciences.



Ailiton LLC developed a unique technology of tube coating, set a fully automated line for production of capillary blood collection tubes. The company has two patents of the Russian Federation for invention and two patents of the Russian Federation for a useful model (Microtube for capillary blood collection and urine analyzer).

Ailiton LLC is the first company developed the Russian reagent kit for detection of Protein in Urine and specialized photometer for this kind of assay. Thanks to this fact in large extend Russian laboratories could give up using out-of-date method of the important test running and managed to introduce the modern analytical test method. Nowadays our company produces a wide range of urine analyzers (from a programmed photometer to highly efficient analyzers).

In 2012 the company won a tender within the Federal Special Program devoted to modernization of medical industry and signed a state contract with the Russian Ministry of Industry and Trade to fulfill research and development works science and research for production of vacuum blood tubes for venous blood collection. As a result, we set up the first Russian production of vacuum blood collection tubes that enabled Russian laboratories to use low-cost venous blood collection devices of good quality competitive with the leading European brands.

In 2013 Ailiton LLC got the status of Dubna special economic zone resident and by 2016 the company has built and opened its own factory in order to produce innovative medical products in the special economic zone. Today the company produces 8 medical devices and 34 types of laboratory reagents and consumables.



Every year Ailiton LLC increases its production capacity. In 2016 its production volume amounted to 41 mln pieces, in 2017 it will reach 160 mln pieces.

Special attention is paid to quality of the goods produced by our company. Good quality is the main point of our philosophy. It is reflected in our company's policy of implementation of Quality Management System in accordance with the international standard of ISO 9001-2015 and regional standard of GOST ISO 13485-2016.

Taking care of accurate, rapid and high-quality in-vitro diagnostics Ailiton produces medical devices which fully meet users' expectations and high production standards.

Contacts:

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Production



“UNIVAC” vacuum blood tubes

First vacutainer tubes made in Russia with various fillers, dimensions 13x75,13x100,16x100, sampling volumes from 1 to 9 ml.

Used for all types of tests in the Clinical Laboratory Diagnostics: hematology, biochemical, immune, coagulation, etc. Organization of tube production in Russia allowed our laboratories using inexpensive and qualitative means for sampling of dark blood, which are as good as the leading European brands.



“UNIVET-II” capillary blood sampling micro tubes containing anticoagulants

“UNIVET-II” micro tubes are used for sampling of capillary blood for complete blood count. Used anticoagulant K2 EDTA has the edge over anticoagulant K3EDTA as it does not affect cell size and allows preserving the tube prior to testing for up to 6 hours.

Unique patented ultrasonic anticoagulant injection technology warrants qualitative stabilization of a sample. Additional pierceable cup allows operator minimizing possible contact with blood.



UNILAB-200 Automated biochemical analyzer with accessories

Automated biochemical analyzer with capacity of 200 tests per hour. Has onboard washing station, option for loading of samples in primary tubes of any size, option for testing of urgent samples, economical of water, independent cooling of reagent and sample unit.



UTS biochemistry reagent kit

Reagents for biochemical tests.

Distinguished by high speed of reaction, wide linear range, high accuracy and recovery rate. All kits may be used at automated and semi-automated open analyzers.



Biochemical specialized photometer ФБС-01-2 (Microlab 540)

Biochemical specialized photometer used for counting of glucose, total protein, cholesterol, uric acid, urea and triglycerides in blood plasma, as well as hemoglobin in blood by hemoglobincyanide and hemichromine methods.

Design features of the device allow operating thereof in unlimited rate mode. Photometering does not exceed 3 seconds.



Biochemical specialized photometer ФБС-01-1 (Microlab 600)

Specialized analyzer for counting of protein in urine and cerebrospinal fluid.

Protein is counted by modern pyrogallol red method.

Range of detectable concentration: 0.01 – 10.0 g/l.

Upon operation of the analyzer, there is no need for special cuvetts as tests are directly conducted in standard glass tubes of 10 mm in diameter.

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Tel. +7(495) 734-91-31. office@unimedao.ru, www.unimedao.ru



**Urine analyzer for protein
and creatinin count
URiSCAN-БК**

Specialized analyzer for proteinuria diagnostics. The analyzer simultaneously detects protein in urine, creatinin in urine and automatically counts protein/creatinin rate.

The latter indicator significantly enhances accuracy of early detection of diseases related to affection of urinary tracts of children and adults. It is off the scale.



**Urine analyzer at testing
strips URiSCAN-strip**

Specialized express urine analyzer for qualitative detection of 11 urine parameters. Given analyzer is used for detection of the main urine components accurate to the tenth or hundredth for separate analytes, which significantly improves accuracy of the diagnostics. It is off the scale.



**Urine analyzer at testing
strips URiSCAN-
PROgress**

Specialized express urine analyzer with capacity of up to 720 tests per hour. Distinctive feature of the analyzer is the largest data archive of up to 4000 tests. Testing status of each testing strip is displayed in real mode at the screen of the device; patient data could be directly entered during tests.



**Automated urine analyzer
URiSCAN AUTO**

Automated urine analyzer for simultaneous express quantitative detection of 12 urine analytes. Built-in unit of liquid chemicals for detection of protein, creatinin, and protein/creatinin rate. It allows for collection of material for testing directly from primary tubes and sampling containers. Large sensor screen. It is off the scale.

**In project: Medonic M32 Series hematologic analyzer line
Newly-designed product 2017**



A new line of MedonicM 32 Series hematology analyzers to determine the 20 indicators of total blood analysis. It possesses a high performance of 67 investigations per hour. Perfect dosing system via the rotary valve ensures high accuracy of the dosing and does not require maintenance. There is a perfect quality control system. A built-in microcapillary adapter minimizes the volume of blood for research, and a special adapter for blood sampling from closed appliances allows you to eliminate a patient's blood contact with the operator. User friendly menu displayed on a color touch screen, does the operation of the analyzer clear and easy even for a beginner. To operate the hematology analyzers reagents produced in Russia will be used, which will significantly reduce the cost of the analysis.

Contacts:

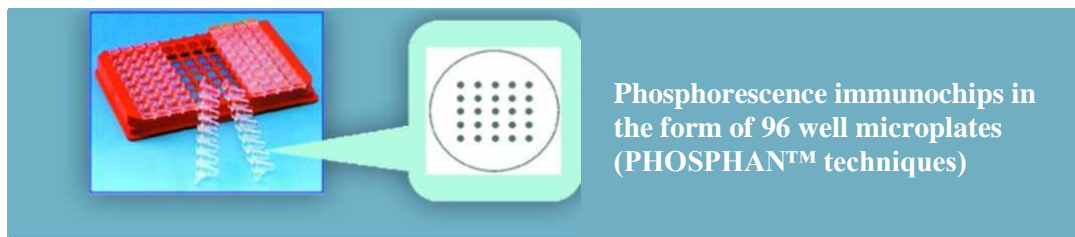
4, Building 2, premises 29, Programmistov Street, Dubna, Moscow Region,
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Biomedical Company LLC (BMC LLC) is a subsidiary of IMMUNOSCREEN registered as a resident of the SEZ Dubna in 2016.

BMC LLC solves the problem of import substitution of foreign products (devices and reagent kits) on the Russian market. Target customers and consumers of the products to be manufactured in the SEZ Dubna will become health care organizations (medical genetics centers of Russian regions, ambulance service, hospitals, as well clinical and diagnostic laboratories).

Activities:

- Organization of and launching diagnostic product fabrication
- Manufacturing reagent kits, including immunochips and dedicated equipment based on fluorescent immunoassay with a time resolution of the luminescence technology (PHOSPHAN™, LIFA).



Key elements of these technologies, such as equipment, chemical reagents, methods of immunoassay, have been designed by IMMUNOSCREEN in cooperation with the Federal State Unitary Enterprise State Research Institute of Biological Instrument Engineering of the Federal Medical-Biological Agency (FMBA) of Russia and protected by Russian patents.

BMC LLC products to be planned for mass production: PHOSPHAN™ technology reagent kits (under development)

- Set for neonatal screening of inherited metabolic diseases (IMD), including congenital hypothyroidism, cystic fibrosis, adrenogenital syndrome (neoscreen -biochip)
- Double set for prenatal diagnosis of Down syndrome in the first trimester of pregnancy (PABB A / sv. HGCh -LIFA)
- Kit for detecting tumor markers (alpha-fetoprotein, human chorionic gonadotropin, cancer embryonic antigen, SA 15-3, SA-125, SA-19-9, SA 72-4, SA 242, NSE, inhibin B)
- Kits for the detection of narcotics (simultaneous determination of 8-16 kinds of narcotic drugs: opiates, barbiturates, amphetamines, etc.).
- Kits for multiplex detection of pathogens of dangerous infectious diseases (simultaneous detection in a sample of 16 pathogens, including viruses, bacteria, rickettsiae, bacterial and plant toxins)
- Sets based on immunochips for serodiagnosis of infections transmitted by ticks (Lyme disease, tick-borne encephalitis, tick-borne rickettsioses etc.)

Separate activities are represented through instrumental and reagent means for early detection and differentiation of cardiovascular pathologies based on quantitative immunochromatographic test strips with fluorescent signal detection.

Portable instrument and test strips for cardiac monitoring



Test strips are designed for detecting acute myocardial infarction within 1 hour from the moment of suspicion of the disease development.

The portable device and cardiac tests are designed to equip cardiac ambulances, intensive care wards, and clinical diagnostic laboratories.

Contacts:

4, Programmistov Street, Dubna, Moscow Region

+7 (916) 722-30-77 n.osin@immunoscreen.ru , www.immunoscreen.ru

PHOSPHAN™/LIFA technique equipment

Biochip Analyzer - IFS-05 phosphorescence light pulse indicator



IFI-05 Biochip Analyzer is designed to record the results of mass IMD screening with newborns, prenatal biochemical screening for chromosomal abnormalities, and other types of immunoassay (TU 9443-048-49941990-2014).

It provides registration of fluorescence signal from the volume and the bottom surface of the wells in the microplates in the time resolution mode in the microsecond range. Spatial resolution is 36 microarray 150-350 microns in diameter. The sensitivity is $-10 \text{ (E)}^{14}\text{M}$ europium ions in the well volume, or 1 molecule / sq. micron from the bottom surface of the well (currently the analyzer is at the registration step, its serial production is planned for 2017).

Automated system for immunochip analysis



Automated system for the simultaneous processing of 12 96-well microplates (immunohips) combining the functions of a dispenser, a washer, a shaker, and paper disc remover with blood samples.

It provides complete sample processing cycle for neonatal IMD screening (5 nosologies), biochemical screening of fetal chromosomal abnormalities, and other types of immunochemical analysis using conventional enzyme immunoassay tests and biochips made in format 96 well microplates (it is under development, release is scheduled for 2018).

High-performance nanoplotter



High-performance nanoplotter designed for mass production of immunohips in the format of 96-well microplates.

It prints microarrays 150-350 microns in diameter using a contact method. Performance is 20 microplates per hour (it is scheduled for release in 2017-2018).

Contacts:

4, Programmistov Street, Dubna, Moscow Region

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Granat Bio Tech LLC was founded in 2016 by team in the field of Laboratory diagnostics and Plastic packaging production.

Our main aim to create a high-quality product which can compete with the leading world manufacturers.

To reach this level of quality, the Company will use high-tech European equipment, specially designed for Granat Bio Tech, and careful selection of raw materials.

Reliability and quality of preanalytical phase of Laboratory work is the priority in our work.



GBT LLC became a resident of the SEZ Dubna since August, 2016.

Construction of production facilities is conducted on the territory of SEZ Dubna. The planned production volume will be 200 million vacuum tubes and 100 million needles per year.

Commissioning of the plant is scheduled for the 2nd quarter of 2018. The first deliveries of production are scheduled for the third quarter of 2018.

Granat Bio Tech products



Venous Blood Collection

Vacuum Blood Collection tubes with Clot Activator with/ without an inert separator gel
Dimensions: 13 x 75, 13 x 100, 16 x 100

Filling volume (ml): from 1 to 9 mL



Vacuum Blood Collection tubes with K2EDTA and K3EDTA, with/ without an inert separator gel

Dimensions: 13 x 75, 13 x 100, 16 x 100

Filling volume (ml): from 1 to 9 mL



Vacuum Blood Collection tubes with sodium citrate 3,2% / 3,8%

Dimensions: 13 x 75, 13 x 100, 16 x 100

Filling volume (ml): from 1 to 9 mL



Vacuum Blood Collection Heparin tubes with/ without an inert separator gel

Dimensions: 13 x 75, 13 x 100, 16 x 100

Filling volume (ml): from 1 to 9 mL



Vacuum Blood Collection tubes with an anticoagulant and glycolysis inhibitor

Dimensions: 13 x 75, 13 x 100, 16 x 100

Filling volume (ml): from 1 to 9 mL



Urine Collection

Vacuum tubes with boric acid

Dimensions: 16 x 100

Filling volume (ml): from 6 to 9 mL



Accessories for BC

Standard Tube Holders



Blood Collection Needles with a special flash window for practical visual venipuncture control

Contacts:

4, Building 3, Programmistov Street, Dubna, Moscow Region

+7 (495) 103-41-16, granatbio@granatbio.ru

Activities:

- Intelligent systems to monitor and ensure any security issue, both for small business and large publicly and socially significant facilities, including Safe City type systems
- Intelligent devices to monitor human health and disease diagnosis at an early stage of development

Planned to serial production of Nordavind-Dubna LLC

CARDIOCLOUD



CardioCloud is a cloud service accessible to multiple users that allows you to send an electrocardiogram (ECG) to a cardiologist using a free mobile application and a specially designed range of devices, and get their opinion on the state of the user's cardiovascular system.

Functionality

For clients:

- Sending ECG to the CardioCloud directly from the mobile application using a smartphone and/or a tablet
- Preservation of anonymity during the examination of the cardiovascular system, as the CardioCloud does not process the personal data of users, and all the data is received at the service completely impersonal
- Opportunity to export ECG and the opinion of a cardiologist in PDF format
- Payment services using a credit card, electronic money, as well as through the implementation of built-in purchase for mobile applications
- Notice of completion of the study by e-mail, as well as via push-notifications for mobile applications

For doctors:

- Automatic notification when you receive a proposal for an examination
- 24-hour access to cardiologists in his/her office
- Availability of visualization tools and analysis of ECG to ensure the convenience of cardiologists' work, even when using smartphones and tablets

The doctor's opinion is formed by the results of the examination, including:

- Assessment of pacemaker
- Evaluation of the heart's electrical axis (HES)
- Features of ECG
- Degree of criticality of heart rhythm disturbances on a scale of 0 to 6.

ECG Dongle cardio USB flash drive



ECG Dongle cardio USB flash drive allows you to easily obtain accurate information on heart work using a mobile application and CardioCloud (cloud service) to send it to a cardiologist and quickly get his/her opinion on the state of the cardiovascular system.

Contacts:

4, Programmistov Street, Dubna, Moscow Region
+7 (499) 608-01-88, dubna@nordavind.ru
www.cardio-cloud.ru

Functionality:

- Measurement of the heart rate
- Displays of the heart work in real time
- A free mobile application for iOS and Android is available
- Sending to cardiologists the obtained results of measurements by the mobile application

Features:

- A device in the form of a USB flash drive weighed 9 grams
- Connected to the human body with the help of four electrodes, which are easy to install yourself
- Connected to a mobile Android-based device through USB using a standard OTG-cable
- Connected to a iOS-based mobile device via a special adapter
- Does not have its own battery, uses a smartphone or tablet battery

Equipment:

- ECG Dongle cardio USB flash drive
- Connection cable
- OTG adapter for the micro-USB
- Reusable electrodes (4 pcs.).
- For Apple devices equipped with the Lightning connector, you should additionally purchase an adapter

Benefits:

- Makes it possible to monitor your health without changing the normal rhythm of life
- Allows your relatives and friends to perform the examination of the heart work.
- Reduces medical costs
- Does not require medical and technical education when using
- Easy to operate

The examination results can be sent to the cloud service to obtain the opinion of a cardiologist.

Mobile application:

- Measurement of the heart rate
- Displays of the heart work in real time
- A free mobile application for iOS and Android is available
- Sending to cardiologists the obtained results of measurements by the mobile application

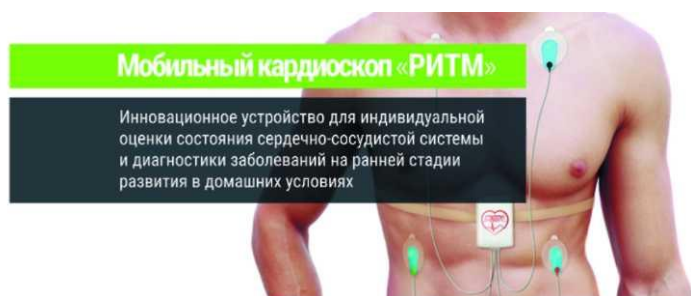
The mobile app is available for smartphones and tablets equipped with Android and iOS

- Displays the heart work in real time
- Shows the heart rate and stress level
- Allows you to adjust the scale along the velocity/tension axis, and to zoom in/out



The results can be saved in PDF, MIT-BIH and EDF format (for Android 4.4 and higher) or sent to the CardioCloud service.

RHYTHM MOBILE CARDIOSCOPE



RHYTHM mobile cardioscope is an innovative device for individual evaluation of the cardiovascular system and the diagnosis of diseases at an early stage of development at home; measures the ECG data and transfers it in real time to your smartphone or to a server, and then information about the state of the cardiovascular system, as well as a recommendation to visit a doctor if necessary is provided.

Contacts:

4, Programmistov Street, Dubna, Moscow Region
 +7 (499) 608-01-88, dubna@nordavind.ru
www.cardio-cloud.ru

Functionality:

Basic version functionality:

- ECG viewing in real time
- Analysis of the ECG results to detect failures
- Heart rate calculation (average night, day, daily rate)
- Output of automatic findings with information
- Keeping event history
- Saving the report in the PDF format and sending it by e-mail.

Features:

An integrated system for the end user consists of several parts:

1. Measuring part intended to take the readings. It comprises:
 - Electrodes for ECG registration
 - Measuring device that reads the sensors and sends the data wirelessly to a smartphone using the Bluetooth.
2. Analytical part intended for the analysis of the measurement results and establishing a preliminary diagnosis. It comprises:
 - Smartphone
 - Smartphone software that will be used to carry out the analysis of the results and output the findings.

Advanced version functionality:

- Identification of cardiac arrhythmias and hypertrophy
- Logging the event audio history
- Viewing previously recorded ECG data with the ability to rewind
- Function for sports
- Function with the alarm state:
 - Automatic call to a relative with an audio message for the user's coordinates;
 - Automatic SMS sending to a friend with the user's coordinates.

Benefits:

1. Can be used by people without medical and technical education through:
 - Intuitive interface
 - Availability of various types of training materials (manuals, video/audio clips)
 - Simple interpretation of the results.
2. Accessibility of the device for people with average income.

For specifications please visit our web site at www.cardio-cloud.ru

Contacts:

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www.cardio-cloud.ru

The purpose of the project is the creation of advanced Russian high-tech industrial facilities for the production of single use sterile medical devices.

To implement the project a company is under construction in Dubna to develop and manufacture single use medical devices. An appropriate agreement on investment partnership was signed during the St. Petersburg International Economic Forum (SPIEF) with Andrey Vorobiev, the governor of the Moscow Region.



The project involves several phases:

- At the first phase, it is scheduled the production of the full range of single use injection syringes, including insulin and tuberculin syringes. Production capacity will reach 450 million units per year
- At the second phase of the project, it is planned to produce infusion and transfusion systems
- In the future, it is provided the fabrication of the production of vacuum systems for the collection of blood and urine, saline prefilled syringes to flush intravenous catheters, and intravenous catheters themselves, the production of which does not exist in Russia to date.



Our production is a full production cycle, including our own sterilization and our own production of medical needles. These factors allow us to produce medical devices that meet all the requirements of national and international standards of Good Manufacturing Practice (GMP). The GMP reflects holistic approach, regulates and evaluates the actual parameters of production and laboratory testing.

The quality control of both incoming raw materials and components, and finished products will be carried out using modern analytical equipment. The test laboratories of our Company will perform more than 100 types of tests every shift.

Contacts:

Production:

4, Building 4, Suite 200, Dubna, Moscow Region

Office in Moscow:

1, business center "Alexander House", office 2.51,
Bolshaya Yakimanka, Moscow,

+7 495 150 2080. info@pascal-med.ru, www.pascal-med.ru

The main activities of the company are new development and mass production of molded plastic products and molds for plastic injection.

The Company has a closed technological cycle of development and manufacturing of molds, plastic products, and robotic systems to automate the production of polymer products from technical specifications to the finished product.

MIM technologies of powder injection molding and IML label application in the mold based on the electrostatic effect have been mastered.

The Company has a fleet of modern equipment with automated control systems, process control and hot runner molds, assembly production capacity and printing area that meet the needs of the most demanding customers.

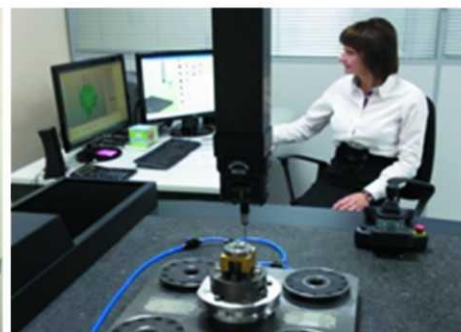
Potential of polymer product production

27 injection molding machines for injection molding with clamping forces from 35 to 650 metric tons.



Potential of tool production

- Mitsubishi MV 1200S, ACCUTEX AU-300iA
- MOLD MASTER M45B EDM machines, machining dimensions: X450 Y350 Z400
- Quick Jet AV-70S milling machine, machining dimensions: X700 Y400 Z350
- 3 wire EDM machines: AGI-ECUT200D
- DMGCTX 310 turning center, machining dimensions: X160 Z450
- ZoLLer Venturion
- Micron HPM 800 U (2 units)
- Wenzel LLH 65: X650 Y750 Z500 measurement machine
- Boring machine
- Horizontal grinding machines
- Cylindrical grinders
- Drillers
- JOKE welding equipment
- Polishing equipment
- DMG 635 milling center, machining dimensions: X635 Y510 Z460

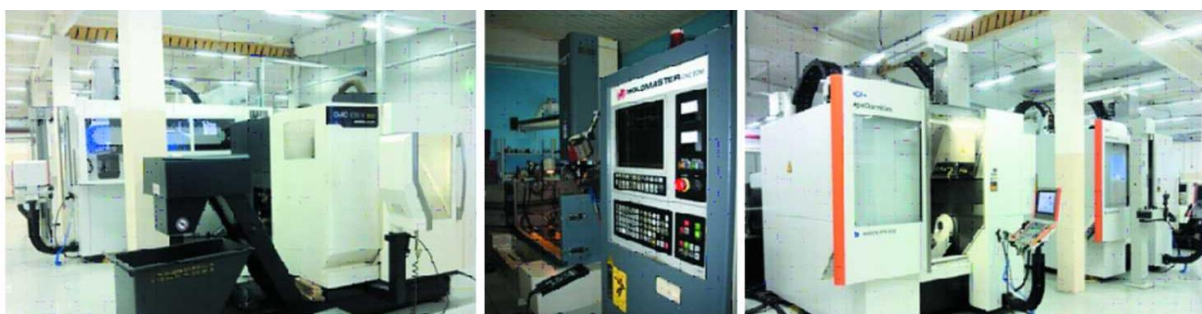


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order@polipak.ru



To fabricate transport systems containing dedicated microorganisms transport media, the Company, together with Gem LLC, has prepared a special clean zone for their production.

Within the medical industry product field, the Company is working with companies such as:



- Alba-print
- Bioscan
- Blister
- Viroban
- Gexa - nonwoven materials
- Gem
- Innovation
- MLT
- TRECKPORTECHNOLOGY
- Eyliton
- ExoAtlet (housing parts)

Transportation system (prototypes)



Transportation systems containing specialized transport media are designed to maintain viability of microorganisms in a period from capturing the biomaterial through to the clinical and microbiological diagnosis using in vitro methods. The use of one or another transport system is determined by the relevant regulations, guidelines and instructions, including those approved by the Ministry of Health of the Russian Federation. These are disposable products.

The transport systems are in the registration stage.

POLIPAK LLC provides services on molding of polymer products under the contracts concluded with the customer, under technical specifications and drawings requirements. The owner (customer) determines further purpose and use of manufactured products.

Examples of medicinal products:



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Production facilities for fabrication of POLIPAK cast polymer medical products is certified according to ISO 9001 and have IQNet Management System.



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INPREN (Innovative Design & Engineering Institute Co) was established to search for new directions of development and is the integrator of the competence of the Group of Companies "AWTECH" - "Analytics and Worldwide Technologies", which has been successfully developing in the Russian market since 1991.

The main directions of our activity: Engineering and complex solutions in the sphere of high technologies; supply of modern equipment; innovative development and production of unique high-tech equipment; service and technical support; professional services for validation (certification, qualification) of equipment and procedures; consulting and audit, trainings.

We create conditions for effective cooperation between science and industry, ensuring the transfer of research results to production. The transfer of new technologies, own manufactory facilities, generalization of acquired knowledge and application of accumulated experience in various fields of science and technology allow us to provide Russian specialists with technologies and an instrument base that allows solving any scientific, research, technological and commercial task.

Engineering and complex solutions in the sphere of high technologies allow implementing projects in the field of pharmaceutical and electronic industry, complex tests and artificial climate, clean room technologies and components, biotechnology, safety and biocontrol, biomedical and cellular technologies. We offer turnkey laboratories for clinical diagnostics, non-clinical, reference and control-analytical studies, develop software and technology complexes for the agro-industrial sector, molecular genetic research, breeding and microcloning.

Validation center provides professional services for validation (certification, qualification) of equipment and technological processes in accordance with the requirements of Russian and international demands (GOST P 52249-2009, ICH, GMP EC, GLP, GTP, FDA, GSP).

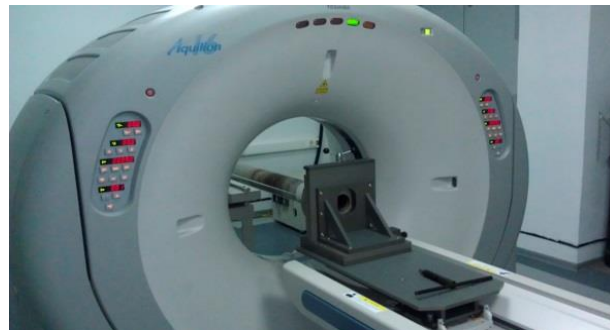
Service center provides consulting, service and technical support carries out audit and training workshops.

Testing and calibration laboratories are staffed by experienced specialists who regularly attend trainings and raise their qualifications in the specialized fields. Our Testing Laboratory has accreditation certificate No. POCC RU.0001.22.ЭК 93 from April 27, 2012, issued by the Federal Accreditation Service (RusAccreditation).

Our **Science-and-education training center** has a license No.035350 from August 8, 2014 on the implementation of educational activities for additional professional education, develops author's educational programs and conducts advanced training courses in these programs. A number of educational programs are conducted in the form of foreign workshops.

Shared equipment collective center was created on March 1, 2012 with the goal of providing scientific and educational institutions, as well as industrial enterprises and research teams with the use of unique high-tech equipment.

Engineering Design Bureau. The basis of our own engineering and technological development is a combination of the use of advanced techniques, many years of experience with the most advanced foreign equipment and feedback from our loyal customers and partners.



*Analytical scanner based on multi-slice computerized tomographic system.
Tumen Petroleum Research Center*



Qualification of the biological safety cabinet by AWTech employees

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INPREN Co products

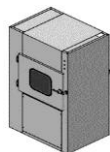
**“SOYUZ” soft wall cleanroom mobile**

It is intended to create a flexible local clean area from ISO class 7 to ISO class 5 as per ISO 14644-1.

These mobile modules are used in clean room technology application. The possibility of connecting several modules to a desired size of the clean room area is provided.



“PORTAL” cleanroom air shower with a side blowing is a self contained chamber installed at entrances to cleanrooms and other controlled environments. The airlock is equipped with doors for entry and exit of personnel and a filtered air blowing system.



Air shower pass box for clean rooms ensures the proper movement of materials between the zones of different cleanliness class in order to minimize contamination of clean area. Equipment and materials to be placed in the air shower pass box are exposed to a strong flow of recirculated filtered air. An interlock system makes it impossible to simultaneously open the doors of the pass box.



Phytostand Mobile “STELLAR-P-2E (PHYTO)” is designed for plant growth and equipped with latticed or perforated adjustable stainless steel shelves, with LED, fluorescent and phyto-lamps and has controllable light intensity.

Application: in vitro microclonal propagation, biotechnology and breeding / genetic researches under / controlled lighting conditions.



“EURASIA PLUS” is a mobile rack with three individual cages for laboratory rabbits and specially designed for compact tier placement of laboratory animals. The cages are fully kitted. Material for pallets / trays is heat-resistant plastic (up to + 90°C).

The trays and pallets are easily removed for subsequent purification; it is possible to connect several racks in a row; fold in-crease in the working cage size at the expense of demountable sidewalls is individually possible.



VENT-BIO-IM blower unit and one or more racks with cages attachable thereto represent a system of individually ventilated cages, (IVC system) for keeping lab animals in isolated conditions to avoid contamination, protect against dust and allergens and create an optimal climate condition in each cage. The preclinical studies on the biological test-systems is a **mandatory step** in the development and licensing of new drugs, generics, biological additives, chemical and biological means. The IVC system operates both under positive and negative pressure in the cages. The system is compatible with all types of ventilation racks with cages and **has no analogues from the Russian manufacturers.**

Innovative technologies

BIOTRON SCIENTIFIC FACILITIES are the first in Russia unique multifunctional technological facilities for the study, preservation and development of the gene pool of unique and / or commercially attractive valuable plant species and varieties using bioengineering and biotechnology techniques. Technological developments are based on the use of meristem technology, technology of virus-free planting material, and microclonal propagation.



BIOTRON. Nikitsky Botanical
Garden, Crimea

Technical features and options of the products are available on the websites:
www.inpren.ru, www.awt.ru, www.awtec.ru

Contacts:

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Our mission is to provide high-quality information services in order to create in Russia a civilized market of medical products and technologies, as well as to enhance their accessibility and effectiveness.

The Company has an extensive portfolio of completed projects for a wide range of biomedical industry. Established relations with authorities, federal health agencies, Russian and foreign industry associations and unions, scientific and expert organizations, as well as leading experts in the field of medical devices allow us to implement a project of any scale of complexity with the lowest possible cost of the Customer.

- Member of the ESOMAR and Association of Quality Assessment Bodies in the Medical Industry (OK-MED).
- ISO 9001 quality management system.
- Authorized representative of Global Medical Device Nomenclature (GMDN) in Russia.
- Accredited common use service provider of Skolkovo Foundation.

Why us?

- Local market deep knowledge
- Scientific and technical expertise
- Individual approach to each task
- Narrow specialization
- Wide expert network



*S. Tsyb, Deputy Minister of Industry and Trade
acquainted with the solutions of MEDITEX for the
medical industry*



*Meeting of the Moscow Region Medical Technology
Cluster Board,
December 2016*

Main activities:

- Market access
- Medical device market analysis
- Regulatory issues
- Training and scientific events

Services:

- Marketing research
- Manufacturing localization
- ISO 13485 QMS implementation
- Medical device state registration full support
- Documentation development, translation and adaptation
- Medtech industry standards development
- Innovative project support, fundraising
- Industry event management
- ☐ Consulting

Contacts:

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Sterion JSC is a network of industrial radiation processing centers. A subsidiary of Rosatom SC, Sterion JSC has currently one active center in Lytkarino, Moscow Region.

United Innovation Corporation LLC started its activity in 2011 as a 100 % subsidiary of the Rosatom State Corporation. United Innovation Corporation LLC is the main managing organization of the Radiation Technologies Division of the Rosatom State Corporation, it has been created as part of the project of the strategic initiative titled "Forming the third business core of the Rosatom State Corporation the in the field of emission control."

To date, United Innovation Corporation LLC coordinates the activities of subsidiaries of the Program titled "Radiation Technologies" in such socially important high-tech areas, as nuclear medicine and multifunctional radiation centers:



SS-18 / 9M cyclotron facilities



Conveyor line top view



Sterion JSC activities:

- Industrial irradiation of customer products, primarily disposable medical products that require sterilization by ionizing radiation
- Short-term plans provide the launch of a second center in 2017

United Innovation Corporation LLC activities:

- *Nuclear medicine*: integration of specialized equipment produced by enterprises of the Rosatom State Corporation, production of medical isotopes and radiopharmaceuticals, as well as integrated solutions for the creation of health centers for the provision of services in the field of nuclear medicine
- *Multifunctional radiation centers*: integrated solutions to create commercial centers of irradiation and sterilization of various products and materials, as well as the implementation of the integrated supply of radiation and process equipment for various irradiation centers

In the field of nuclear medicine, United Innovation Corporation LLC is engaged in the creation of centers of production of radiopharmaceuticals and provision of diagnostic nuclear medicine services for Russian citizens. Among the most successful projects in this area are:

High-tech diagnostic center, Moscow (TSVTD LLC);

Nuclear medical technology - Snezhinsk, Chelyabinsk Region (YaMT-Snezhinsk LLC).

The SS-18 / 9M cyclotron facilities manufactured by Efremov NIIIEFA are used for the production of radiopharmaceuticals with the controllable extracted beam energy.

Multifunctional radiation centers

Another activity of United Innovation Corporation LLC is an industrial application of radiation technology.

The first center of radiation, Sterion JSC, is located in Lytkarino, Moscow Region.

Irradiation center customers are companies located in the Central Federal District. For sterilization, the UEL 10-10S accelerator manufactured by Efremov NIIIEFA is used, it was commissioned in 2016. The energy of the accelerated electrons in the rated mode is 5 and 10 MeV, the output power is 1 and 10 kW, respectively.

Contacts:

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Sterion JSC
8, Industrial Area Turaevo, Lytkarino
+7 (495) 995-78-55, ext. 121,123A



Loading a conveyor line



To achieve effective results of irradiation, products are specially placed in boxes having dimensions of 580 x 380 x 280 mm, which are delivered into the irradiation zone with the help of a transport system. During a single day of operation, the Center is able to handle up to 1,500 boxes. The center capacities allow irradiating up to 5,600 metric tons of medical devices per year.

In 2016, the second irradiation center in the Kaluga Region, in Obninsk, that is analogue of the center in Lytkarino, has been organized and prepared for the launch. It is equipped with UEL 10-10S manufactured by Efremov NII EFA and its production capacity is 5,600 metric tons / year.

The center irradiation sterilizes the following products:

- Medical products used for the treatment of wounds (wound dressings, burn materials, absorbent materials)
- Medical garments, drapes, disposable medical personal protective equipment, etc.
- Vacuum tubes

For the convenience of its customers, the Irradiation Center in Lytkarino is open 24 hours 7 days a week.

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Activities:

- Design and development of software and information systems
- Development of sites
- Brand and corporate identity development
- Internet advertising

Med Link



Webis Group LLC products

MedLink is an integrated medical information system designed to automate the tasks of all health professionals, from nurses through to lab technicians and the head physician; it can improve operational efficiency, significantly reduce the time spent on paperwork, improve the quality of health care, and increase the number of patients served.

WebisOnline



WebisOnline is an online chat for instant communication between website visitors and managers of the company as intellectual tools to engage visitors in a dialogue with the manager, statistical and analytical tools for the management of the company, and as a convenient mobile operator's application.

Abante CMS



Abante CMS is a powerful and flexible content management system for websites, provides a high level of protection against unauthorized access, as well as high performance and versatility (minimum requirements for the server and client software).

Retail Terminal



Retail Terminal is an online catalog with ordering system on the touch screen of the terminal, provides the functionality and convenience of a good online store without having to connect to the Internet (the communication is only required for the planned updating of information on the terminal, and the transmission of order data), without restrictions on commodity base size, there is a centralized management of the network terminals without limiting their number and geographical location, integration with 1C App or other storage systems; it can be flexibly adapted to the business task.

Consulting services

Functionality of sites produced:

- Careful planning and quality control at all stages, any options: personal sites, landing, online shops, portals, and online services
- No restrictions on the volume of information published
- Integration with external ERP / CRM systems
- Effective promotion of sites in search engines and high conversion of visitors

Information about customers

- **Main customers:** business, government organizations, individuals
- **Main sales markets:** Russia, Belarus, Ukraine, Kazakhstan, Kyrgyzstan, France, Germany, China, Vietnam, Canada,
- **Well-known brands:** Narzan, Dubna University, Europ-Assistance, Drofa Publisher, LLe, Ekookna, Volkswagen, Halliburton, Qmatic, VGTRK, FixPrice, Ecolean, Mariinsky Theater, and United Grain Company.

Contacts:

9, Universitetskaya Street, Dubna, Moscow Region

+7 (495) 636-29-78 contact@webisgroup.ru

www.webisgroup.ru

Auxiliary and hospital-wide medical devices

Equipment for working with cryogenic liquids	6
Water supply and gas supply systems for medical institutions	6
Consoles, resuscitative, operating, anesthesiological, ward, and components for them	6
Health care beds	6
Means of protection when transporting infectious patients	6
Monitoring and alarm for clinical and operating state of gases in the pipes	6
Sets of drapes and clothing, surgical, procedural, for surgery; cap-berets, shoe covers	9, 10, 12
Products for the care of patients (urinals for children)	12
Sterile single use medical devices, three-component, including insulin and tuberculin syringes	38
Single use syringes-injectors	11
Products for infusion and transfusion therapy	7, 11
Syringe dispenser, infusion pump	27
Microinfusion pumps	12
Alarm sensors	11
Tubes, endotracheal	7
Catheters	8
Lines for hemodialysis	8
Fistula needles, venous and arterial	8
Bilateral needle, with a visualization system	34
Probes	7
Products for blood services	8

Medical devices for in vitro diagnosis

Biochemical test strips for use in clinical diagnostic laboratories	3, 4, 5
Reagents for clinical laboratory diagnostics	15, 23, 30
Reagents for the study of the hemostasis system	15, 23
Reagents, including immunochips, to detect drugs, pathogens of general infectious diseases, serodiagnosis, and infections transmitted by ticks	32
Culture media, their components, and rapid tests for the detection and identification of pathogens of infectious diseases (67 culture media and 26 rapid tests). Specialized collection for collection, storage, study of pathogenic strains of bacteria, bacteriophages, fungi and cell lines	13, 14
Vacuum tubes and vacuum systems for a wide range of studies (hematological, biochemical, immunologic, coagulation) in vitro diagnosis	29
Polymer microtubes, vacuum tubes for the collection of venous blood	29, 34
Bilateral needles for collecting venous blood	26
Containers for bioassays, including sterile ones	12, 25, 26
Transportation systems, including specialized transport media	41
Analyzers, including biochemical ones, photometers, biochemical	16, 29
Coagulometers	23
Stainers	23
Urine analyzers	29, 30
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Biochip analyzers for registration of mass IMD screening results with newborn	33
Automated systems for analysis on immunochip for neonatal IMD screening, biochemical screening of chromosome pathologies of the fetus	33

Physiotherapy medical devices

Medical equipment for the rehabilitation and treatment of patients, incl. Svetlyachok	22, 27
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Medical products that are not part of the sections of the nomenclatural classification by type of medical products

Apparatuses for electrotherapy, high-frequency (installations for local EM and microwave hyperthermia of malignancies)	19, 20, 21
Hardware-software system, Vestibuloskan-Oculostim-KM for the experimental induction of abnormal illusory (dizziness) and sensorimotor (nystagmus) reactions with tested persons	24

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CardioCloud, a cloud service for sending to cardiologist the electrocardiogram (ECG), and obtaining its opinion on the state of the user's cardiovascular system	35
ECGDongLe cardio USB flash drive for obtaining data on the heart performance using amobile app and CardioCloud cloud service.	35
RHYTHM mobile cardioscope for an individual assessment of the cardiovascular system and diagnostics of diseases at an early stage of development at home	36
Hardware and software systems to inform health care facilities	47
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Preparations for ophthalmology, dentistry (XENOPLAST, OKVIS, Glykodent)	17, 18
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Engineering services for pharmaceutical production, manufacture of medical products	42, 43
Intellectual services in the field of medical technologies: research, implementation of quality/risk management system, preparation for certification according to GOST ISO13485, investment projects, the search for funding sources, scientific and practical workshops, conferences, etc.	44
Services for manufacturing of polymer components and molds	40, 41
Sterilization services for medical devices	45, 46
Services for serial printing immunochips in the format of 96-well microplates using a nanoplotter	33
<i>* Production is still preparing.</i>	