

Catalogue of exhibitors of the Russian exposition



RUSSIAN
EXPORT CENTER

EXIAR

EXIMBANK OF RUSSIA



Made
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EXPOCENTRE
INTERNATIONAL EXHIBITIONS AND CONVENTIONS
MOSCOW

November, 13-16 | 2017



SEARCH

ANALYSIS

SCANNING

COMPLETE

Germany, Düsseldorf



COMPREHENSIVE SUPPORT FOR EXPORTERS

The group of companies of the Russian Export Center (the REC Group) is a state owned institute of export support that provides comprehensive financial and non-financial support to Russian export-oriented companies in the single window format. One of the key tasks of the Group is to interact with relevant ministries and departments in the sphere of improving and developing foreign trade of the Russian Federation.

The Russian Agency for Export Credit and Investment Insurance (JSC "EXIAR") and the State Specialized Russian Export-Import Bank (Joint-Stock Company) JSC EXIMBANK OF RUSSIA have been integrated into the REC Group.

The legal status of the REC is enshrined in Federal Law No. 185 dated June 29, 2015 "On Amendments to the Federal Law "On the Bank for Development" and Part 2 Article 970 of the Civil Code of the Russian Federation.

REC'S KEY PERFORMANCE INDICATORS

The development of non-primary non-energy exports is one of the priority directions of the Russian economy. The REC Group faces global challenges in creating a favorable business climate for export activities, improving legislation and promoting Russian products to foreign markets.

Among the target strategic indicators of the Group are the following:

- » Increase in non-primary non-energy exports by 7% annually
- » Growth in the number of unique exporters (separately - small and medium-sized businesses export growth)
- » High quality and availability of services provided

SERVICES FOR EXPORTERS

Russian Export Center provides complex financial and non-monetary assistance to the companies involved in export-related and international economic activities

NON-MONETARY SUPPORT

- Foreign markets analysis
- Promotion in the foreign markets
- International patenting and certification
- Customs administration of export
- Logistical support for export activities

FINANCIAL (MONETARY) SUPPORT

- Export credits and investment insurance
- Export contract credits
- Bank guarantees

EDUCATION & TRAINING

Russian Export Center Education & Training Project features the retraining courses for the regional SMEs interested in developing their export potential



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WELCOME MESSAGES

to the participants of
the 49th World Forum for Medicine
MEDICA 2017

On behalf of the Russian Export Center may I cordially greet you on the occasion of the opening of Russian exposition at world largest medical trade fair MEDICA.

MEDICA is number one source of information on the innovations in the field of medicine - from diagnostics and therapy through to hospital treatment.

It is noteworthy that participation in MEDICA provides Russian producers of medical equipment with an excellent opportunity to showcase their latest developments, network with key stakeholders from a

variety of destinations, share expertise and startup a direct dialogue with would-be partners.

I sincerely wish Russian participants successful work and win-win deals!

Petr Fradkov
Head of the Russian Export
Center Group of Companies



WELCOME MESSAGES

to the participants of
the 49th World Forum for Medicine
MEDICA 2017

On behalf of the Russian Federation Chamber of Commerce and Industry may I cordially greet the participants and guests of the Russian Federation exposition at the MEDICA trade fair.

Development and cementing of health care sector is currently one of priority missions of the state policy.

Participation in this major global-scale trade fair opens up new vistas for Russian medical equipment producers encouraging them to perfect their skills and adequately react to to-day's market demands

an also offering a precious opportunity to establish business contacts with international partners.

It is one of Chamber of Commerce and Industry's prime goals to provide support to the Russian producers in their efforts to enter international markets and we are doing our best to help remove administrative barriers and stimulate domestic companies to promote their products globally.

Over the past decade Russia slowly but surely has been building up its presence on the world pharmaceutical and medical markets.

Russian companies with their huge production potential, high engineering level, quality, quantity and diversity of products really have so much to offer to the global markets.

I wish the participants, guests and organizers successful work and excellent results!

Vladimir Dmitriev
Vice President, Chamber of Commerce
and Industry of the Russian Federation



WELCOME MESSAGES

to the participants of
the 49th World Forum for Medicine
MEDICA 2017

May I cordially greet the participants and guests of the prominent trade fair MEDICA.
For over four decades in mid-November global medical community has been congregating at this unique venue in Dusseldorf.
This is AO EXPOCENTRE’s actually 12th appearance at MEDICA editions. In 2017 Russian participation will for the first time be supported by AO Russian Export Center.
This year Russia is represented at the show by 25 companies and organizations from a variety of

national regions and destinations including the Federation of Laboratory Medicine (Moscow), Research & Production venture MONITOR (Rostov-on-Don), Medical Tool Production facility (Kazan), Instrument Production facility (Elatomsk, Ryazan region) and many more. Russian exposition will showcase innovative medical equipment, tools, domestically made medical wares.
Diverse associate program offered by Russian section will familiarize the viewers with the very latest trends in medical technology development as well as help find leads essential for win-win cooperation between Russian companies and European clinics and medical equipment distributors.
I wish all the participants successful work, cementing of partnerships and fresh initiatives targeted at health care perfection.
Good results and sound health to you all!

Sergey Bednov
Director General,
AO Expocentre



WELCOME MESSAGES

to the participants of
the 49th World Forum for Medicine
MEDICA 2017

On behalf of the Association of the Laboratory Medicine Specialists and Organizations "Federation of Laboratory Medicine" I am pleased to greet all the participants and guests of the World Medical Forum and Tradefair — MEDICA 2017.
MEDICA Tradefair in Dusseldorf is a large-scale event with an incredible coverage of products and technologies for the medical industry and one of the most important events for the worldwide medical market.
Healthcare industry in Russia has always been science-based, and its achievements have always been interesting to the professional community. Medical laboratory industry therefore is a high-tech and dynamically developing sector, ready to demonstrate its advances. And MEDICA is an excellent opportunity to present the products of Russian manufacturers of laboratory equipment and consumables to the worldwide community and international markets.
I wish everybody success in achieving their business’s goals and objectives!

Arkadiy Goldberg
Executive Director
of the Association "FLM"



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ADVALANGE

Advalange is a leading, efficient and experienced competitively priced developer of safety-critical and mission critical software for medical, laboratory, aviation, transportation and agriculture industries!

Have you ever been challenged with pressing deadlines, increasing expenses, insufficient resources, or gaps in your in-house capabilities? Look at our team: excellence in different stacks of software technologies along with excellent understanding of applicable standards such as FDA/CDRH 510(k), IEC 62304, ISO 14971, ISO 13485.

We work with well-known world developers of medical & laboratory companies to successfully overcome these problems.

Advalange team is experienced in all stages and aspects of software life cycle including:

software prototyping; software development; independent software verification and validation including software testing; test automation; certification assistance.

Our experience in software development & software verification for medical & laboratory companies include but not limited to:

- the application software for a robotic chemical laboratory
- battery management solution for non-rechargeable medical device batteries
- image processing for x-ray machines
- vital sign monitors
- defibrillation systems

Our customers get guaranteed advantages from work with us:

- 100% of our engineers hold at least a master's degree in computer science, math or physics
- flexibility to use most applicable project management practices from straight waterfall to agile
- ability to launch and manage complex SW development projects
- good command of English, sufficient to support fast oral and written communication with customer
- reasonable pricing for our services: software engineering hourly rates for embedded systems are capped at \$40/€37 (fully burdened)
- hour approach: payment for productive hours only, everything else is included in our base rate: base training, attrition, overhead, downtime, applicable warranties, infrastructure
- competitive pricing policy related to a project size and duration
- flexible pricing models: Time & Materials, Firm Fixed Price, customized pricing to fit your project needs

Advalange customers' list includes: Tecan AG (Switzerland), Metrax GmbH (Germany), Waxwing Avionics (UK), Elbit Systems (Israel), TechSAT (Germany), CMT Medical Technologies LTD (Israel).

Synergy of high-end technologies and instruments onboard, flexible management and organizational structure, client-oriented approach with a special attention to communication process and culture differences adds up to each and every project success.

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DNA-TECHNOLOGY

DNA-Technology LLC was founded in 1993. It has consolidated the experience of leading researches of NRC "Institute for High Energy Physics and NRC Institute of Immunology FMBA of Russia, Federal Medical-Biological Agency of Russia.

Our company is the only domestic manufacturer of the full technological cycle from scientific development to equipping and supporting medical laboratories with equipment and kits of reagents for carrying out molecular genetic studies using the Real-time PCR method.

The quality of products is on the level of the world analogues and is approved by international certificates (ISO 13485:2012, 9001:2008, CE IVD certificates), which allows to successfully compete on the market in Russia and abroad (partners in more than 28 countries).

In addition to the full list of routine research for diagnosis of human infectious diseases, DNA-Technology, LLC offers for use in practical public health patented inventions (more than 25 patents):

- innovative research of the micro biome composition of the reproductive tract of men and women (Femoflor®, Androflor®, ImmunoQuantex®)
- determination of genetic predisposition to various diseases, including cancer risk (BRCA 1, 2, mutations, polymorphisms of hemostasis system genes, etc.)
- HLA class II genotyping
- non-invasive prenatal diagnosis of fetal DNA, RHD genotyping and sex determination of fetus)
- pharmacogenetics research (sensitivity to anticoagulation therapy and antiplatelet agents)

As part of the development of science-intensive technologies, the company cooperates with leading scientific and clinical centers in Russia and abroad. Author's developments of DNA-Technology LLC are awarded with prestigious awards (national award to best medicine professionals "The Calling", 2014, Prix Galien Russia, 2016 etc.).





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AILITON

Ailiton LLC is a part of Unimed Group of Companies, was set up as a developer and manufacturer of IVD medical devices in 2003.

Our company is proud of its unique R&D team of 30 science and technology specialists which has been built for 14 years. The Head and Leader of our team is Mr. Alexander Shibbanov, 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 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.

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 Ailton produces medical devices which fully meet users' expectations and high production standards.

"UNIVAC" vacutainer tubes

First vacutainer tubes made in Russia with various additives, 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 micro tubes containing anticoagulants

"UNIVET-II" micro tubes with anticoagulant K3EDTA.

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 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 analyzers.

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

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

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

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

Specialized analyzer for analysis of protein in urine and cerebrospinal fluid by pyrogallol red method.

Range of measured concentration: 0.01-10.0 g/l.

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

Urine analyzer for protein and creatinin URICKAH-БК

Specialized analyzer for proteinuria diagnostics. The analyzer simultaneously measure protein and creatinine in urine and automatically calculates protein/creatinine ratio.

Test-strips urine analyzer URICKAH-strip

Urine analyzer of 11 parameters. Simple and reliable device for small laboratories.

High-precision photometer provides a unique analytical performance of urine tests.

Urine analyzer at testing strips URICKAH-PROgress

Urine analyzer of 11 parameters with capacity of up to 720 tests per hour. Memory for 4000 tests. High-precision photometer provides a unique analytical performance of urine tests.

Automated urine analyzer URICKAH AUTO

Fully automated urine analyzer with 12 parameter test-strips module and photometer module for protein (pyrogallol red method) and creatinine Jaffer method) measurement and protein/creatinine ratio calculation.





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ASTRA RESEARCH & PRODUCTION CENTER

Research-production center Astra was founded in 1998. Production of equipment for in vitro diagnostics and software for clinical diagnostic laboratories, is the main activity of our company. The main asset of the company, in addition to qualified personnel, can be called the full life cycle of products — from idea to development, testing and production. Products have two directions: devices electrophoresis serum proteins-trigram analyzers and analyzers of parameters of hemostasis — coagulometry.

The device of the electrophoresis blood serum proteins suitable for the study of protein spectrum of blood by electrophoresis on membranes from cellulose acetate and agarose gel and further processing of the obtained data with the help of special computer programs. Coagulometry are used to evaluate the efficacy of myocardial infarction therapy in the treatment of cardiovascular insufficiency in the diagnosis and treatment of malignant diseases, various surgical procedures, for the evaluation of hemostasis during anesthesia and intensive therapy during pregnancy.

Analyzers "KoaTest" presented single, dual and Quad channel coagulometer, each of which has its own characteristics. Single-channel "Latest-1" is a mechanical analyzer that performs 4 basic test in blood plasma, is able to make measurements in whole blood analysis of INR and to measure the optical method D-Dimer. Two- and four-channel optical analyzers hemostasis perform all the main tests have built-in printers, touch screens, built-in quality control, etc.

Distinctive features as electrophoresis and coagulometers is the ease of execution, adaptability to the laboratories with low to medium amounts of tests minimum service procedures, the low price range.



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AXION

Medical Equipment

Axion products hold the position of quality brand for civil products well known in Russia as well as abroad.

Today Axion is the only company in Russia to produce defibrillators and the biggest one to produce electrocardiographs. The production of medical equipment is arranged on the basis of the wide range of the manufactured devices: resuscitation, cardiology, neonatology, physiotherapy, surgery.



General Directions for Medical Products

- Cardiology
- Resuscitation
- Surgery
- Neonatology
- Physiotherapy

New Products

- Electrocardiograph incorporating transmission to GSM operated cardio remotecontrol
- Electrocardiograph incorporating an automatic syndrome-based report and ECG transmission to cardio remotecontrol via GSM
- Automatic defibrillator designed for use in crowded places
- Defibrillator-monitor incorporating automatic defibrillator





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BIOLA

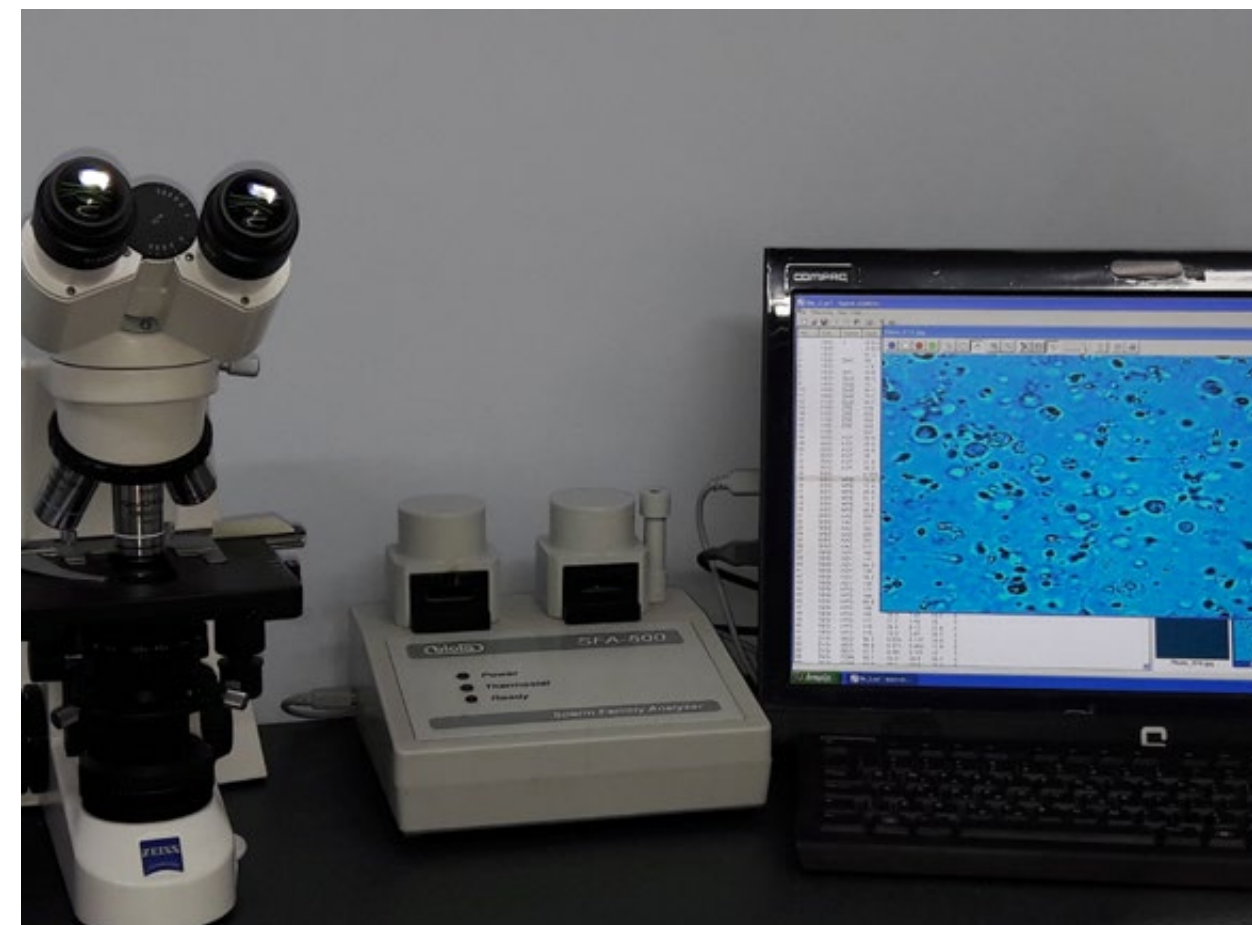
The scientific and production company Biola was founded in 1990 by a group of scientists of the Russian Cardiology Research and Production Center. Today it is the one of the leading Russian manufacturers of laboratory medical equipment and equipment for functional diagnostics. A solid scientific base and the use of modern technologies allow the company to establish moderate prices for equipment without compromising quality. Our main partners are located in UAE, Turkey, Greece, Portugal, Italia and Pakistan.



The SFA-500 sperm analyzer from Biola is designed to determine motility and concentration of spermatozoa in undiluted semen. Combining laser technology with advanced and easy to use software, perform a fast and accurate analysis of key parameters of semen, which helps in the diagnosis of male reproductive function in order to determine the appropriate treatment. It is the only analyst who is able to combine the high resolution capability with accuracy and repeatability, ease of use and also reasonable price. It is extremely simple and easy. To perform the analysis, it is sufficient to place the sample in a special cuvette and all procedures are performed automatically. The receiver result in minutes appears on the screen or printed on paper.

Aggregation Analyzers produced by Biola Company are designed to study aggregation of the platelets or other cells, to determine concentration of the cells in a suspension, and to assess their shape. Aggregation is measured both by routine turbidimetric technique and by recently developed method based on real-time measurement of aggregate mean size. The turbidimetric metric of Born and O'Brien is most widely used in modern studies of platelet aggregation. It is based on recording of the changes in optical density in platelet-rich plasma. This approach makes it possible to study not only aggregation, but also the changes in platelet shape. The latter is particular important, because the changes in platelet shape can mask the initial stage of aggregation. In addition, formation of microaggregates (consisting of less than 100 platelets) may not be reflected by the changes of optical transmission in a suspension.

NeuroScope is the other Biola product. It is a family of PC-based digital encephalographs. These compact units combine the benefits of a paperless EEG with record quality and the ease of use normally associated with paper-and-pen models. There are three model lines in the NeuroScope family; the models in one line differ only by the number of channels. The NS400 and NS400P (portable) model lines offer exceptional quality and reliability, yet the price is several times lower than the competition. For even lower prices, consider NS400A line. Even though it has fewer features than its bigger brothers it retains everything necessary for routine clinical tests, at a price that's hard to believe.



BIOVITRUM

BioVitrum is a high-tech company that produces and develops innovative solutions for diagnostics. Our goal is to introduce new modern technologies into practice for obtaining high-quality histological micro-preparations for quick and efficient diagnosis.

Today BioVitrum has its own research center, which unites leading specialists of different scientific fields. The company develops and realizes any complex projects thanks to the synthesis of specialists' knowledge and their involvement in the work process. BioVitrum own production and R&D department annually develops and launches up to ten new products for medical purposes. BioVitrum's consumables for histology are actively used in the largest clinical centers in Russia. Now the company export potential has already been evaluated by suppliers from the Baltic States, France and China.

We are Russian manufacturer of innovative high-class histological products. Our quality control laboratory provides outgoing control of reagents, develops and verifies step-by-step staining protocols.

BioVitrum presents the histological reagents of its own Russian production:

- Innovative high-class paraffin media for histology — HISTOMIX®, produced by the patented BioVitrum's technology
- Kits for histology routine and special staining
- Reagents for fixation and tissue processing and Mounting media

BioVitrum develops company's own IT-products:

- **Histoscan.com** — telepathology consultation portal. It is the cloud solution designed especially for the purposes of Digital Pathology. Histoscan.com is a fast and comfortable way to receive and make second opinion for scanned digital slides. Now more than 1.300 pathologists have already registered on the portal. It is a simple and very useful platform with easy access from any place 24/7
- **Histoviewer** — touch-screen pathology viewer. It is a unique system which transfers the process of pathology education, diagnostics and consultation to an advanced level of digital visualization

BioVitrum also presents innovative interactive products:

- **ePath** — macro imaging and grossing solution, with audio, video recording, and photo documentation, which allows you immediately enter all the data into the patient's electronic card
- **LabForce** — laboratory informational system for pathology, compatible with the international standards LOING (SNOMED), HL7, IHE and designed for large laboratories and scalable to all types of workflow

BioVitrum is a modern diverse production company with full cycle technological capacities which makes possible to realize projects of any complexity.

At the event on the BioVitrum booth will be presented a grossing station (ANSI 304 stainless steel) of company own manufacture.

The grossing station of the histological material refers to the "island" type. It is specially designed for a one-time work of a doctor and a laboratory assistant "face to face". BioVitrum is a Russian manufacturer, open to products customization.



BPLab®

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BPLAB (PETR TELEGIN LLC)

Petr Telegin LLC has been successfully operating on the market of medical diagnostic equipment since 1994. Today it is one of leading Russian blood pressure monitor manufacturers.

Our main product, 24-hour ambulatory blood pressure monitoring system BPLab Standard, was validated against ESH 2001 protocol and BHS protocol (A/A measurement precision class in 3 groups of patients: general group, pediatric population and pregnant women). BPLab system is enlisted on dabl Educational Trust LTD website and British Hypertension Society website as recommended for use.

Recently the new device BPLab Compact 2 has been introduced to the European market. The new system has very small size and weight; it has colourful display, driverless cable (coming soon), Bluetooth/SD-card/mini-USB interface, 4 pre-installed measurement plans and manual programming.

The main operational principle of BPLab ABPMs is oscillometric — the system records oscillograms of each measurement, in other words, all heart pulsations are recorded in the device memory and a doctor can check the signal quality of every particular measurement and exclude movement artefacts.

Besides, the advanced technology Vasotens enables processing of the recorded oscillograms. As a result, there can be a simultaneous acquisition of peripheral blood pressure parameters together with parameters of arterial stiffness and central arterial pressure — with no additional cuff inflation at suprasystolic or supradiastolic level.

In the nearest future, the new product BPLab Twin, capable to perform 24-hour ECG and 24-hour ABPM analysis, will be presented in the market.

BPLab products reached worldwide recognition and they are actively used in multiple international clinical and academic studies.





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DIAKON-DS

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 the most importantly long-term contact with customers. Currently DIAKON-DS JSC 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 DIAKON-DS JSC 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.





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ELAMED

JSC Yelatma Instrument Making Enterprise was founded in 1980. Today it is known by the brand name ELAMED. For more than 35 years ELAMED Company has become one of the leading manufactures of medical equipment, exporting its products all over the world. ELAMED designs and manufactures a wide range of innovative products, develops existing medical technologies and invents new methods of therapy. ELAMED Research and Development Center creates original science-grade devices; Medical Department studies and approves every new invention.

Today there are four groups of medical products within ELAMED's product range:

- PEMF therapy medical devices
- equipment for sterilization and disinfection
- furniture for clinics, hospitals, laboratories etc.
- IOP Tonometer Easyton

ELAMED was the first enterprise in Russia which proved to comply with ISO 13485 standards. Part of ELAMED products has been CE, FDA certified.

The enterprise is a frequent participant of international medical exhibitions and has various types of international and Russian awards.

Hundreds of medical facilities and pharmacies are among ELAMED's customers, millions of people in European countries, the USA, Canada and Asia use ELAMED devices on regular basis.

Constantly growing demand for ELAMED products proves their quality and efficiency. ELAMED works to be ahead of time.





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HEM

HEM LTD is one of the oldest private companies in the Russian laboratory supplies market. The company was established in Moscow in 1988 by several lead specialists of the USSR Healthcare Ministry Hematology Research Center. Since the very beginning the company has been constantly introducing new and innovative products to the market and also successfully promoting new products such as single-use blood lancets, sterile containers, thermal bags, single-use lab plastic ware, ready-to-use culture media in Petri dishes etc.

PRODUCTS

Prepared media in petri dishes

- High-quality prepared media in Petri Dishes, produced by our subsidiary company CFGS
- Fully automated production line. Strict compliance with the international production standards GOST R ISO 14644-1-2002; GOST ISO 9001-2011; GOST ISO 13485:2003; NCCLS M22-A3
- Wide variety of standard media, custom-made prepared media, including biplate Petri dishes
- Multi-Stage Quality Control
- Extended products' shelf-life compared to the other manufacturers

Enterobiasis test Kits

- Helminth infestation (helminthiasis) is the wide-spread problem for developing countries, and one of the common parasites is *E. vermicularis*, which is very difficult to diagnose by the standard flotation method
- The most suitable technique for diagnosis *E. vermicularis* is the microscopic examination of a perianal applicator
- This kit uses the modified classic technique by Rabinovich where a glue-coated spatula is used instead of a glass stick
- The kit consists of a transport container with a labeling sticker and a spatula made of transparent polystyrene, coated with water-based glue

Fecal Parasite Concentrators Kits

- Fecal Parasite Concentrator is the cleanest, most advanced device for isolating helminth eggs and larvae, protozoan cysts, coccidian oocysts, and microsporidian spores
- It is easy to use, provides clean sediment for microscopic examination, and requires the shortest processing time
- The isolation method is a modern modification of the well-known formalin-ether method
- Features
- Closed two tube system (mixing and filter tubes)
- Simple, safe, sanitary, and efficient
- Minimal odor, no mess
- Standardization of process

Flexistrip™ spreading spatulas

- Designed for safe, easy and error-free blood smearing
- Made of special grade polystyrene, which eliminates cuts to hands and fingers
- Two tapered working ends with microfiber finishing allow making both wide and narrow monolayer smears ideal for microscopy
- Flexible design protects blood cells from possible destruction
- Best for malaria and HIV screening

Transport System

- Transport System is a sterile set containing hermetically packed test tube with a specialized transport medium and a polymeric flocked swab for sample collection
- The height of the test tube is 82 mm, the length of the flocked swab is 150 mm with a breakpoint at 80 mm (for all types of mediums)
- The flocked swab's brush is made of viscose (standard version) or nylon
- Transport systems with Amies or Cary Blair liquid mediums can be used for both routine and automatic sample collection procedures
- Agar (solid) mediums can be used in routine sampling procedures made in accordance with the standard sampling protocols





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KAZAN MEDICAL INSTRUMENTS (KMIZ)

Kazan Medical Instruments (KMIZ) is one of the leading developers and manufacturers of medical products in Russia. Date of foundation is 1931. 85-years of experience and compliance to modern standards make Kazan Medical Instruments one-of-a-kind company. We supply more than 3.000 different products worldwide including Europe, Asia and United States.

The range of manufactured products includes:

Dental products:

- tungsten carbide cutters and burs
- diamond burs
- endodontic instruments
- dental handpieces and micromotors

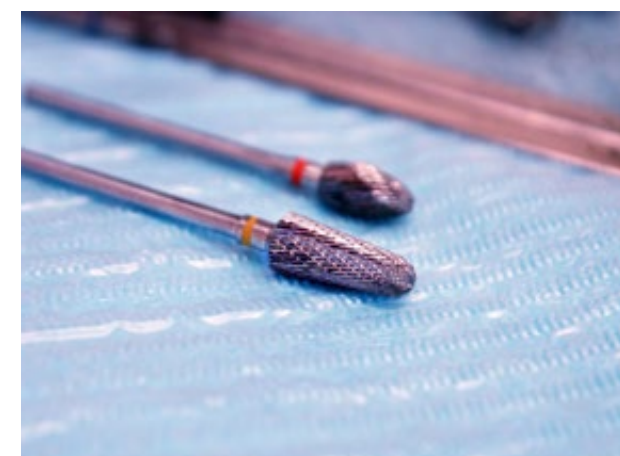
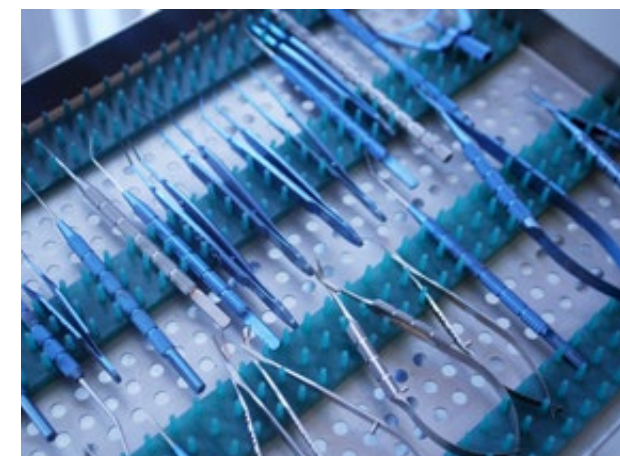
Microsurgical instruments:

- vascular surgery instruments made of titanium/ stainless steel
- ophthalmology instruments made of titanium/ stainless steel
- dental implantology and maxillo-facial surgery instruments made of titanium/stainless steel

Polymer products of single-use:

- urology
- gynecology
- laboratory
- dentistry
- surgery

Impressive opportunities of modern equipment park make us leading manufacturer of dental instruments and handmade titanium or stainless steel products in Russia. All production processes comply to international standards and come through strict quality control. Great attention to quality and details made KMIZ one of the leaders in its industry in Russia. Our manufacturing processes comply to international quality standards ISO 13485:2012, most of products are CE marked and available for sales all over the world. Constant cooperation with leading medical centers and specialists as Russian, both European, became our typical feature which guarantees compliance of our goods with requirements of doctors who are eventually end customers. Reasonable price, high quality of products and great history make us trustworthy and client oriented partner. Kazan Medical instruments is open to cooperation on OEM basis.





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KSI VENTURES

KSI Ventures is a Russian investment company focused on investing in projects in the field of living systems at the seed stage, as well as microfinance and the acceleration of promising projects. KSI Ventures is a member of the biopharmaceutical cluster "Northern" — association of the leading enterprises of the Russian pharmaceutical, biotech and medical industries, research institutes, hospitals and small innovative companies at the Moscow Institute of physics and technology (MIPT).

The main objectives of the company is to development of breakthrough medicines and medical devices.

Since 2014 KSI Ventures has invested in 16 start-ups, and in 2015, as the managing partner of "Seed Fund" in the field of living systems, created in conjunction with the RVC Seed Fund in the form of investment partnership.

KSI Ventures is considering projects in the following directions:

- Pharmaceuticals
- Neurotechnology
- Medical equipment
- Cellular and genomic technology
- Agricultural biotechnology
- The creation of new materials

KSI Ventures has experience acceleration companies — from zero to the first sale, as well as access to a wide pool of participants of Biopharmcluster "Northern".

KSI ventures and the RVC seed Fund (RVC SF) and created MIKROFOND in the form of an investment partnership — Seed Fund in the field of living systems.

Portfolio companies KSI Ventures:

VeinVis



The history of VeinVis began in June 2016, when the project team developed the first prototype of the device for the visualization of superficial veins. Soon, the first pilot batch was developed and handed over to the medical institutions of Moscow and the Moscow region for testing. In July and August 2016, after receiving comments and suggestions of employees of medical institutions, involved in testing, VeinVis created two new prototypes and produced the second batch of pilot product. Based on the results of three months testing a final version of the device was produced. In October 2016 the company VeinVis was officially registered.

The team of VeinVis registered a patent application for utility model of the device for the visualization of superficial veins.

This device allows patients to facilitate the process of blood sampling and intravenous injection, and also makes it less painful. Increasing the percentage of accurate vein hits allows



health facilities to reduce the cost of consumables, as well as saving staff time. The VeinVis device is especially important for patients who have difficulties in carrying out vein blood collections and intravenous injections, for example, for children, people with overweight, cancer patients. The device can be used in case of emergency.

NeuroTone



NeuroTone is an innovative, high-tech start-up in the NeuroNet category. The mission of the company includes the development of products that can enter the global market, representing high-tech Russian developments in Neurotechnology.

NeuroTone was established by companies XI Ventures and Neuromatix to pool competences and market developments of Neuromatix companies with competence and financial capability of XI Ventures. NeuroTone is a member of the biopharmaceutical cluster "Northern" — association of the leading enterprises of the Russian pharmaceutical, biotech and medical industries, research institutes, hospitals and small innovative companies at the Moscow Institute for Physics and Technology (MIPT).

NeuroTone managed to become the first and only to create a complete, already commercially available product within the working group NeuroNet — the waking and mental condition control system "SleepAlert" for drivers, railroad engineers and operators, which works on the basis of some bioelectric signals of the body for example, EMG and EEG based. The system works not only with the physiological parameters, but with psychosystem that enhances user security level of the system by 30%-50%.



CardiON



Integrated solutions for public defibrillation. CardiON LLC was established in 2015. The company is member the biopharmaceutical cluster "Northern" — association of the leading enterprises of the Russian pharmaceutical, biotech and medical industries, research institutes, hospitals and small innovative companies at the Moscow Institute for Physics and Technology (MIPT). Since its launch time, the company became the official representative of the automated external defibrillator "AltDef-01" in Russia, as well as a member of the public defibrillation program in Russia.

The company's mission is to provide quality equipment for enterprises and companies, public and social organizations with comprehensive solutions for public defibrillation. The company's goal is to enter the market of automatic external defibrillators, be part of the import substitution process, to offer effective solutions at competitive prices.

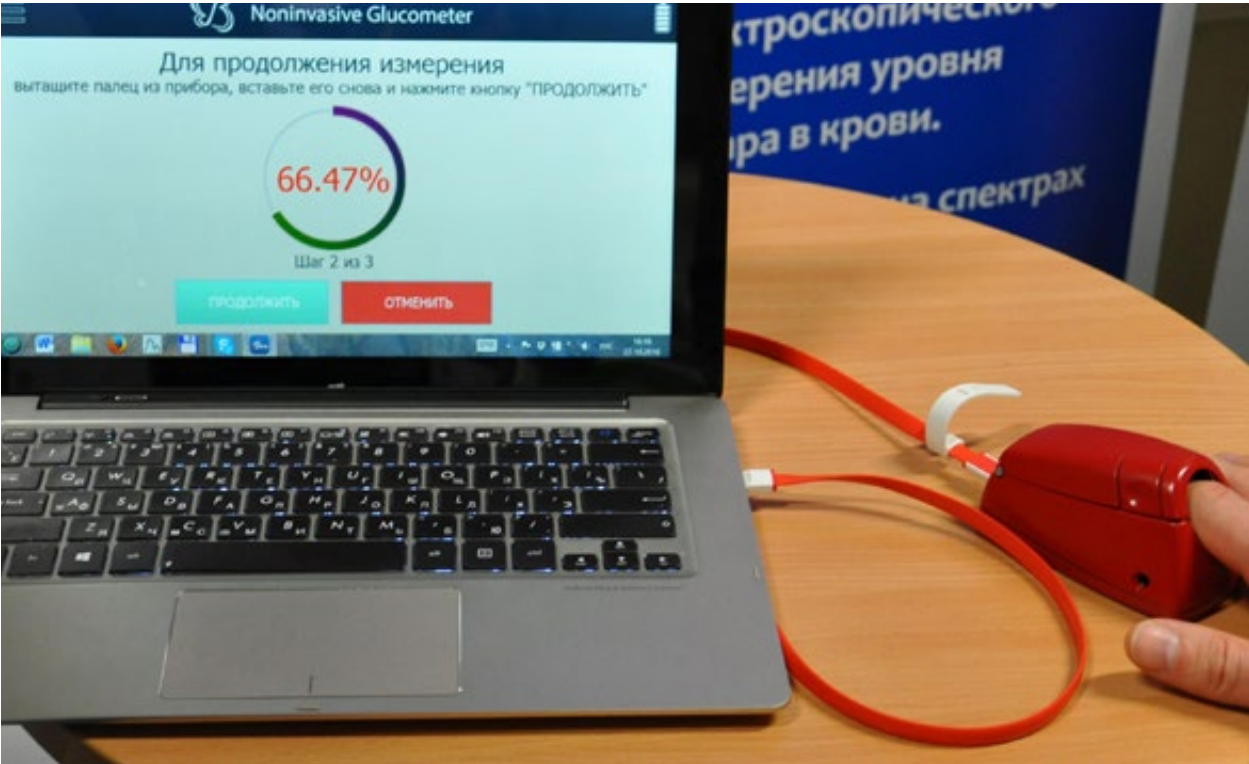
"AltDef" provides energy to discharge automatically up to 200 Joules, which ensures high effectiveness of defibrillation. The device is always ready for use: energy gain time is no more than 10 seconds, the battery provides more than 120 discharges, the self-diagnosis program periodically checks the condition of the device. The device automatically analyzes the ECG and, if necessary, give the command "Discharge". If there is no need for defibrillation, the system will not allow the discharge to cause and



worsen the patient.
According to statistics cardiovascular diseases are the leading cause of death among middle-aged people around the world. Placing of a sufficient number of automatic defibrillators in public places will allow in the case of sudden cardiac arrest to conduct life-saving operation using electric discharge in the first 3-5 minutes, which can increase the survival rate up to 60-70%

Brain Bit

Brain Bit is the company develops high-tech equipment at the intersection of medicine and IT. The main project is a non — invasive blood glucose meter based on its own proprietary technology bloodless spectroscopic measurement of blood sugar levels. The device is an optical sensor weight no more than 180 grams. It can be both standalone and connect via USB or wireless Bluetooth interface with computers, smartphones, tablets and other mobile devices. The principle of operation of the meter based on the use of optical radiation for the study of the tissues of the fingers of a human that allows to obtain information about the biochemical composition of the blood.





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LASMEDTECH

Since 2008 the research and development center LasMedTech Group designs and produces different high-end laser modules and devices for cosmetology, dermatology, surgery, odontology and gynecology on a global basis. The enterprise has high scientific-and-technological potential, modern production base and skilled labor.

Stringent control and production test maintain high reliability and quality. The company bears all the responsibility for its goods and controls manufacturing process with due diligence applying advanced technologies. A wealth of experience, high production standards, investments in self research and development provide constant refinement of laser devices manufacturing and allow to create unique equipment.

Soviet scientists Prokhorov A.M., Basov N.G. and American scientist Charles H. Townes conduct pioneer research in quantum electronics and laser emission generators and got a Nobel prize in Physics. It's that became precondition for Head office of our company locates in Russia, in Moscow, and other branches are located in different cities around the world.

One of the latest results of our long experience is the multifunctional laser complex LASEST. The Laser System LASEST grants a wide range of esthetic and surgery procedures based on the one extendable platform, that encapsulates three different types of power transmission: articulated arm, hard plastic clad fiber and floodlight.

All production is registered. We have product licenses and certificates of Russian Federation and European Union. The development and production process is certified according to International Organization for Standardization ISO 13485.

One of competitive advantages is that Our Company takes into account opinions and requests of doctors and clinics during production design and manufacturing. This is our way to the product, that completely satisfy all the requirements from patients to care taking personnel.



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MEDICAL BIOLOGICAL UNION

Medical Biological Union LTD (MBU) is one of the first privately held biotechnological companies in Russia. MBU works in the Health Science field. Researches and developments of MBU are aimed at making facilities and methods of reliable high quality diagnostics of human diseases.

Our company' products are:

- ELISA kits for diagnostics of human infectious diseases
- RCR kits for diagnostics of parasitic infections
- Quality control materials for diagnostic labs
- Fully-automated analyzers for immunodiagnostics

We also make OEM manufacturing, technology transfer and complex projects in R&D and manufacture of different typed of diagnostic products.



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EPIGENE

EpiGene LLC is the only Russian developer of epigenetic PCR tests with outstanding efficiency based on our proprietary technology. We are targeting the most deadly types of cancer: colorectal, lung, breast and stomach. Epigenetic approach to cancer detection allows to make a diagnose of a disease at the earliest stage. In our test we analyze DNA samples extracted from the blood of patient. In our work we use novel method of methylation detection – GLAD-PCR assay, developed by our colleagues from SibEnzyme Ltd, Russia. It is much more simple and effective than traditional methods based on bisulfite conversion of DNA.

Today colorectal cancer test is ready and we are preparing it for registration in Russia and clinical trials. But we hope that today is a good moment for entering forming epigenetic diagnostic market.

We are looking for partners worldwide to represent our test on markets of other countries.

NPK RELSIB

Relsib — scientific and production company, resident of Technopark "Academpark", Novosibirsk. The company was founded in 2001 with main activity-measuring devices and automation systems. The company produces the world's smallest thermostat for more than seven years in the amount of more than 1 million units per year. Now Relsib is the leader in Russia



for production of Dataloggers, including for pharmaceuticals and medicine. Since 2013, the company is actively developing medical devices for home diagnostics. The company will start selling the most modern medical thermometer RELSIB WT50 "TERMOSHA" in 2018. This year the company will complete work on the development of temperature monitor for baby, blood pressure meter without cuff, multifunctional medical bracelet.



MONITOR RESEARCH-PRODUCTION COMPANY

Monitor LTD was founded in 1992 with the group of well qualified professionals of defense industry of Russia having a huge experience in developing of technical devices for avian and space medicine. The company is the leading manufacturer of the medical equipment for the needs of cardiology, reanimation and rehabilitation in Russia. There are many thousands medical devices produced by our company in use all over the world: on the whole territory of Russia, in Europe, Asia and Africa.

Monitor LTD is the developing and manufacturing company producing medical equipment for the use in medical establishments, private practice.

Our activities are developing and production of diagnostic patient monitors, central monitoring systems, 1/3 and 3/6/12 channel resting ECG machines, stress-systems, holter monitors and graphic spirometers.

Monitor LTD produces more than 8.000 devices annually.

Head office and the manufacture are based in the Southern Federal District of Russian Federation.

Export activity covers CIS countries, Turkey, Indonesia, Hungary, Bangladesh, Egypt, EU countries and others. The company exports all range of equipment.

Our company has a certificate of quality management system in accordance with ISO

13485:2003 for the following scope: design, development, manufacture, maintenance, sales and distribution of patient monitoring equipment, ECG equipment and spirometers.

All our devices have international CE certificates. Also Monitor LTD has a Free sales certificate.





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MLT

MLT LLC is based in Dubna, Moscow region and develops and manufactures medical products for in vitro diagnostics (IVD). The company is a resident of SEZ DUBNA since 2013. One of directions of activity is related with development and production of automated programmable slide strainers.

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.

Staining machines FASTAINER (FS-16-12, FS-16-25) for sample preparation for microscopic studies in hematology, microbiology, parasitology, cytology, histology.

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.

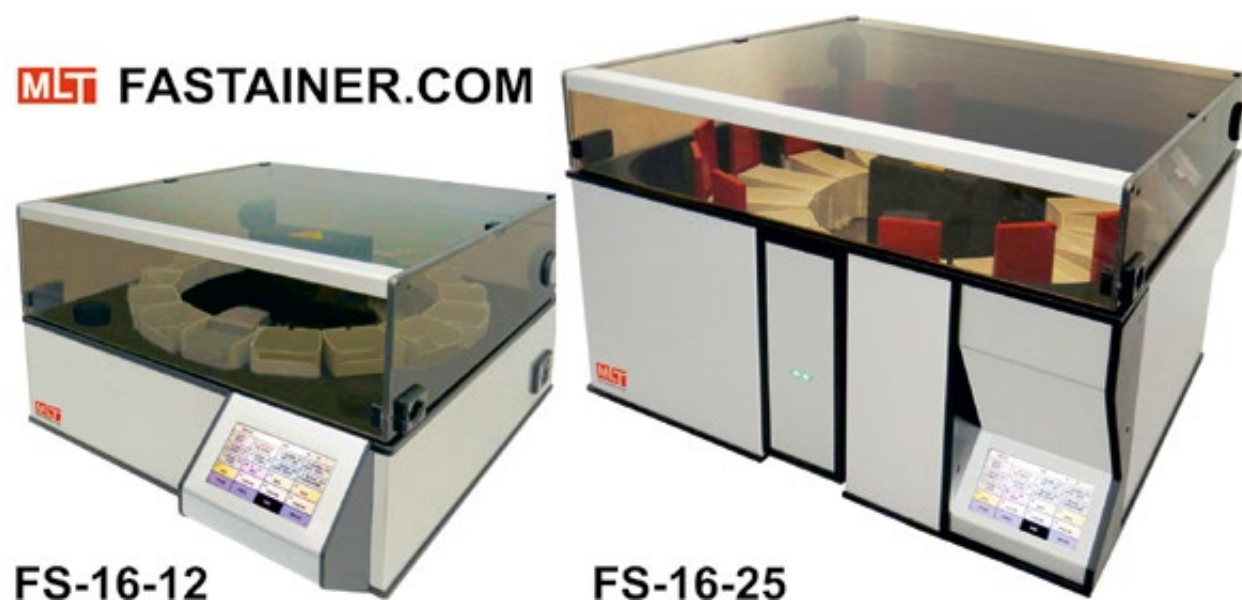
The number of stations is enough for providing most complicated techniques, such as Papanicolaou stain or different histological methods, H&E, particularly. The simple techniques: Romanowsky, Gram staining and so on, can be executed with high productivity. The productivity for Papanicolaou stain, for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

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

MLT FASTAINER.COM





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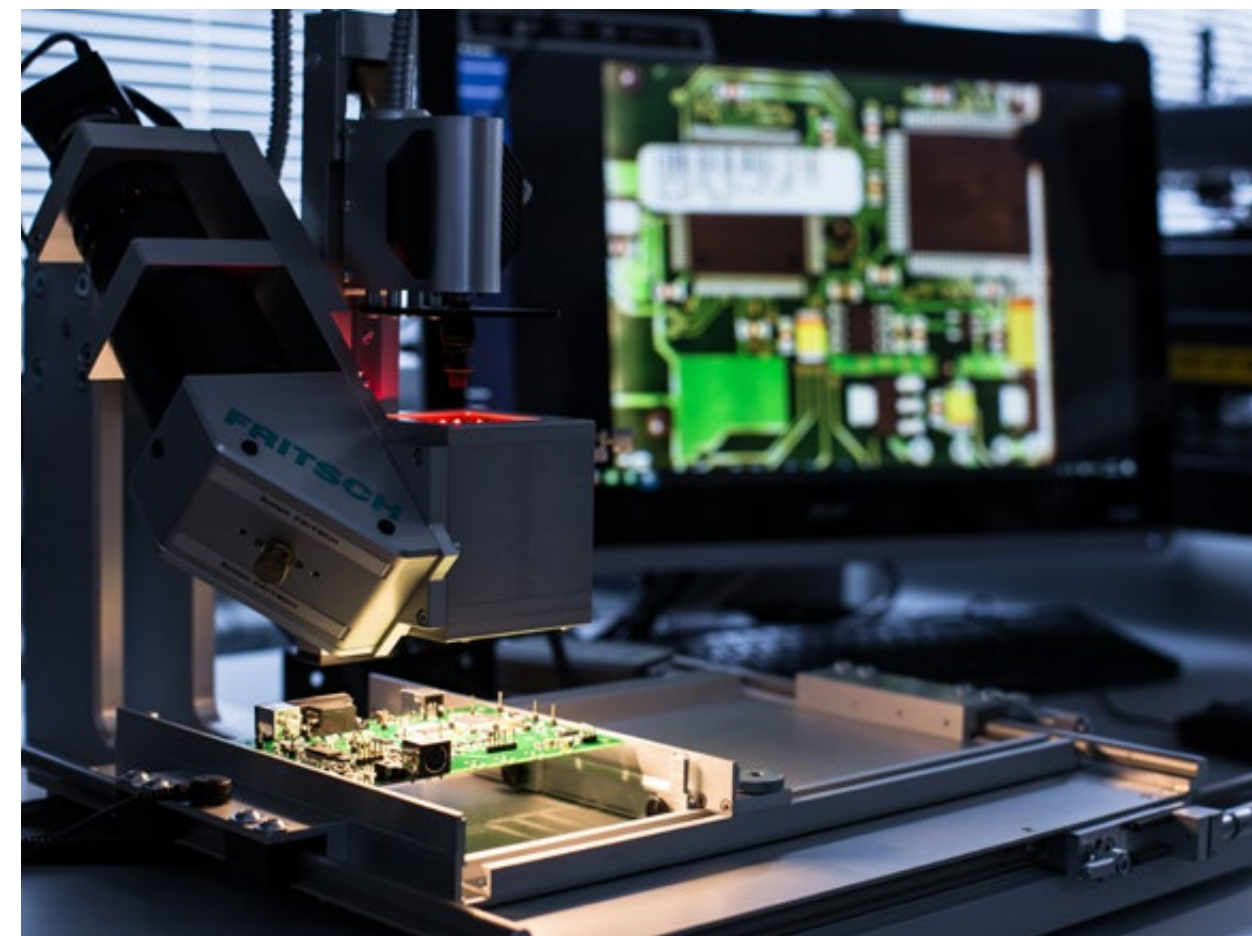
NEUROSOFT

In 1992 we started to produce medical equipment for neurophysiology and electrodiagnostics striving to provide healthcare facilities and medical professionals with easy to use and reliable technologies meeting the highest international standards. Now, twenty five years after, Neurosoft is proud to be a brand name known all over the world. With a strong heritage of delivering the best possible clinical and research solutions to our customers we're constantly innovating further with the cutting edge electronics, the know-how design, dependable performance and efficient technical support.

We understand the needs of permanently changing clinical environment through constant feed-back from healthcare experts and participation in the largest specialized exhibitions and congresses. You can always visit Neurosoft stand at Medica in Germany, Arab Health in the UAE and AudiologyNOW! in the USA.

We're challenging the boundaries of medical diagnostic technology through unique features and comprehensive test battery of our equipment.

Our Neuro-MEP.NET software provides 55 techniques for NCS, EMG and EP studies. No alike software in the world has this amount of protocols! Our devices operate in more than 70 countries on 5 continents and have certification in 20 world regions including FDA, CE, ISO and TGA.





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REAGENTIKA

About us

The company was founded in 2005 to look for laboratory IVD products and solutions for further development and synergetic integration into existing product line of Vector-Best group of companies. Vector-Best is one of the major players in Russian IVD market manufacturing over 1.5 million of diagnostic reagent kits per year and supplying over 5.000 clinical diagnostics laboratories through country-wide distribution network. Reagentika complements Vector-Best made products with equipment, reagents and consumables from reputable manufacturers such as Grifols Diagnostics (Spain), Dynex Technologies (USA), Ritter GmbH (Germany).

Scope of business

Considering that expected continuous growth rate of IVD market in CIS countries (total of \$1.5 billion) is driven mostly by automation, it attracts reputable international automatic IVD equipment manufacturers who occupy 95% of the market. Reagentika is an expert in synergetic automation solutions for Vector-Best diagnostic reagents and other complementary IVD product lines.

Reagentika can provide reliable expert assistance in promotion of such products, post-sales customer support, technical service, sales force application training. Reagentika regularly participates in all major medical trade-shows, specialized exhibitions, organizes own promotional seminars and events.

Country-wide network

Reagentika has a network of distributors and also benefits from full access to the distribution, service and customer support infrastructure as a part of Vector-Best group:

- 15 regional distribution centers covering Russian Federation, Kazakhstan, Belorussia, Ukraine
- Each regional center has cold chain logistics, sales force, provides customer and technical services
- The centers have ~390 staff in total, including 70 sales managers serving over 3600 laboratories, 40 service engineers, 40 application specialists and 20 product managers

Business partners, products and results

- Vector-Best (Russia), manufacturer of reagents for IVD diagnostics. Reagentika supplies raw materials and automation, sells Vector-Best diagnostic kits in the international market
- Dynex Technologies Inc. (US), manufacturer of ELISA automated analyzers. Reagentika (best Dynex customer in 2011) installed and supports over 500 units, provides technical service and supplies consumables
- Diagnostics Grifols (Spain, manufactures DG Gel blood typing solutions (manual and automatic). Reagentika won 14% of Russian immunohematology market
- Ritter GmbH (Germany), manufacturer of tips for automated pipetting. Achieved market share of 10% in Russia
- BioSan (Latvia) manufactures semi-automated PCR and ELISA equipment for Reagentika on OEM basis and occupies ~45% of this market

Objectives

Reagentika seeks partnership with manufacturers in areas such as automated immunochemistry and biochemistry, luminescent/fluorescent immuno-diagnostic analysis, real-time PCR, coagulation and hematology and other IVD techniques matching demand from our existing client base. Reagentika can move new products into domestic market including state registration.

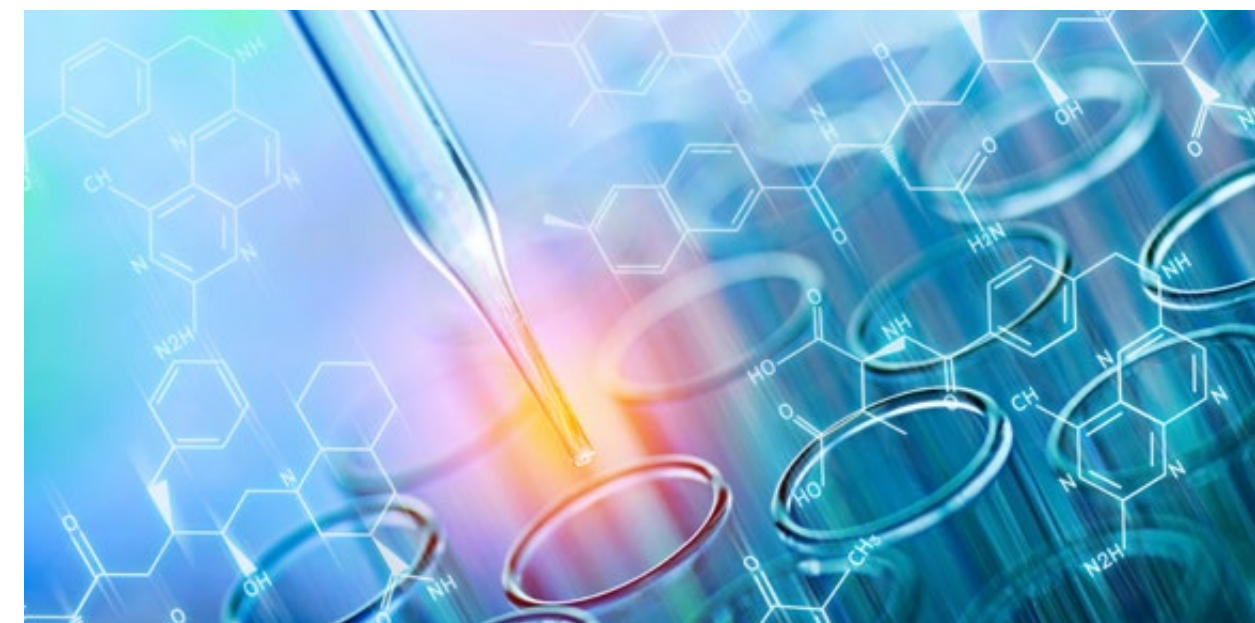
As an exporting company of Vector-Best group, Reagentika looks for international distributors for over 500 PCR and ELISA diagnostic kits manufactured by Vector-Best. They provide thoroughly tested and cost-effective solutions for IVD diagnostic laboratories

Distributors!

RT-PCR and ELISA product lines are on offer for international sales

Manufacturers!

Reagentika provides your best gateway into Russia





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REPER-NN

Reper was founded in 1996 by a group of scientists from Nizhniy Novgorod. Their idea was to combine various technical solutions to develop technology of manufacturing intraocular lenses for cataract surgery. The first IOL was produced and implanted in 1996 and then the company continued to improve this technology to compete international brands. Nowadays Reper is a leading company in Russia with 20% of market share. Its unique technology is used not only in Russia, but also was installed outside of the country for some regional markets. The company is focused not only on the final product, but also on constant improving the material. The product range includes IOLs for routine practice (spherical, aspherical, multifocal, toric), anti-glaucoma devices, capsule tension rings and other implants. All new models are developed in cooperation with leading Russian hospital and institutes. Company has 30 active patents, some of them are international.



The most innovative product is the artificial iris. It's the only iris prosthesis that combines all the advantages: provides customers with outstanding cosmetic effect, passes through safe mice-incision and comes with IOL integrated.



In 2010, Iconlab was spun off from Reper company to develop implants for other field of medicine. As the company had its own technology the idea was to find its implementation in other areas. The company's main material, hydrophobic acrylic (called Reperen), was tested in neurosurgery, wound care, hernia repair etc. It became demanded for its unique anti-adhesive effect for the cases when it's critical to prevent scar tissues. So for now IconLab is the most successful in IPOM (laparoscopic) hernia repair devices and Dural repair. The most innovative product, IPOM with anti-adhesive surface, passed FDA clearance in 2017.

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SURSIL-ORTHO

Sursil-Ortho was founded by orthopedic doctors in 2003. It's main focus is the development and subsequent manufacture of the latest innovations in the field of Orthopedic insoles and shoes. Indeed, the company is proud of their numerous patents for scientific development in this area. Research, along with the development of new products is an important part of the company's work. In 2005 the company pioneered the development of individual Orthopedic insoles and started to manufacture them in-house — a factor that increased efficiency, reduced production time and made them more affordable for clients. A patent for this product now exists throughout Russia. In 2015 an additional

STABILIZING SHOES



COMFORT AND ORTHOPEDIC SHOES



patent was introduced following the introduction of a new improved method of production for individual insoles. Sursil-Ortho shoe manufacture began in Zhukovsky in 2008. Since then the scale of manufacture has increased significantly with the focus being always on the quality of the products.

In 2016 the introduction of a conveyor system increased productivity to 200.000 pairs a year and the company now employs more than 200 people.

The factory is open to the public and visits to can be

arranged. Not surprisingly, the products are increasingly sought after in Russia and are highly commended by customers. At present the company also exports to Kazakhstan, Uzbekistan, Kirghizia, Armenia, Belarussia, Ukraine, Saudi Arabia, Emirates and Iraq. In 2016 a new Orthopedic shoe was developed and patented in Russia and the manufacture has recently began.

Always Sursil-Ortho remains a client-focused company with the main aim of living up to their reputation for excellence.

Postoperative Shoes





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TDL TEXTILE

- The leading producer and exporter of medical products, natural fabrics and home textiles
- Our medical products are sold in more than 20 countries around the world
- 5.500 employees work in Ivanovo, Moscow and Kostroma regions
- The reliable and conscientious partner. For more than 20 years our clients' success is our success
- Full cycle of production allows us to produce monthly 30 million meters of medical bleached gauze in roll, 100% cotton



We are glad to offer a wide range of gauze products:

- medical bleached gauze in roll, 100% cotton
- sterile/non-sterile gauze swabs, including swabs with x-ray thread
- sterile/non-sterile gauze bandages and cuts

All manufactured products meet requirements of European Quality Standards. Our medical products are certified with ISO 9001 and ISO 13485:2003.

The factory Navtex is equipped with the unique modern machinery, designed by German and Russian engineers specially for TDL Textile. Own manufacturing base, a team of professionals, as well as decades of experience on the textile market allow us to create high quality product and satisfy our customer needs.



Full cycle of production allows us to produce monthly 30 million meters of medical bleached gauze in roll, 100% cotton. We produce medical products, selecting only the best cotton, having the whole production process under the control, and being in charge of each production unit. Nowadays, the company has plans for further expansion of the production range and world-wide distribution.





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TECHNOLOGIA-STANDART

The firm mission consists in providing Russian and foreign healthcare institutions with high-quality, modern, available diagnostic kits and reagents for evaluation of haemostasis system. The limited liability company Technologiya-Standart (Barnaul, Russia) is a manufacturer of diagnostic kits and reagents for evaluation of haemostasis system.

Technologia-Standart LLC began working in 1989. Today production upon eight sections covering assessment of general parameters of coagulation, physiological anticoagulants, fibrinolytic activity, platelet functions and also the whole range of control blood plasmas and separate reagents has been mastered.

The range of the manufactured kits and reagents for evaluation of haemostasis system, including 69 items today, is capable to meet the requirements of various consumers from small laboratories of local hospitals and CRH to large federal research and clinical centers. Production of the lyophilized and liquid forms and also kits for chromogenic techniques is also in the company arsenal.

Existence of liquid forms allows a laboratory to reduce time for carrying out a test and exclude mistakes of the preanalytical stage considerably. Besides, liquid forms have no within-vial variation and within-run variation is essentially reduced. The kits by Technologiya-Standart are adapted to work on all semi-automated and automated coagulometers, including devices by the leading global manufacturers: STAGO, Sysmex, Instrumetation Laboratory, Helena, Tcoag, Behnk Elektronik, Human, Cormey.

Over 11.000 laboratories from all regions of Russia from Anadyr to Kaliningrad, as well as from Kazakhstan, Belorussia, Ukraine, Moldavia, Uzbekistan, Tadzhikistan, Georgia, Armenia, have seen the true value of the company products during the years of its existence.

Since 2008 the quality management system of Technologiya-Standar LLC has been certified on compliance to the requirements of ISO 9001:2015, GOST ISO 9001-2015 and EN ISO 13485:2012.

In 2015 the company confirmed its meeting the requirements of European directive 98/79/EC on medical products and was registered in the territory of EU which allows selling manufactured products in the countries of European Union and put EU label on the package.

From 2014 till 2017, Technologiya-Standart LLC has registered 17 additional new products, including plasmas for reagents quality control (Quality Control), universal calibrator (it is suitable for implementation of calibrations of products by Technologiya-Standart as well as other manufacturers) and Tech-D-dimer-test for semi-quantitative determination of D-dimer in human blood plasma. The kit for quantitative determination of D-dimer in human blood plasma for automated coagulometers is at a registration stage.

Technologia-Standart LLC is included into the international quality control system RIQAS (Great Britain) and monthly passes tests and checking of its products.





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VITAL DEVELOPMENT CORPORATION

Vital Development Corporation JSC is one of the leading Russian manufacturers of reagents for in vitro diagnostics. In 2008 Vital Development moved its production facilities to the Russian Special Economic Zone (SEZ) Novoorlovskaya established specially to house manufacturing companies that work in the field of innovative technologies. Nowadays the Vital's research and production complex, which is located on the territory of Russian SEZ, includes production of test systems for biochemical and enzyme immunoassays, laboratory equipment and biochemical analyzers.

Founded in 1999 the company started as a manufacturer of test systems for clinical biochemistry and within a decade has developed its product line and extended its client base. Having accumulated a lot of experience and examined the demand in the field of immuno-enzyme assay, Vital started developing its own test systems and in 2011 launched its first ELISA kits line called Imaxiz.

Company's research and development as well as cooperation with scientific-and-research institutions worldwide allows for an ongoing extending of the product line tailored to customer's and partner's needs. In 2012 the reagent line was completed by a five-step Water Purification System "Prodeion 10 VS-M" specially designed for the laboratory requirements to be user-friendly, cost-effective and energy efficient device that satisfies the priority needs of ultrapure water for the most accurate results.

Two years later, in 2014, the company launched a project to develop the open type biochemical analyzers, which production is scheduled for 2019.

Nowadays Vital works with more than 1.000 companies in Russia and has a wide dealer network in the CIS countries. Besides, in 2007 the company started exporting its products to foreign markets — European, Asian and African countries. Our partners highly appreciate the advantages of working with us: high-quality test systems, wide range of products, reasonable prices and fast delivery of goods.

In 2007 Vital Development implemented a quality management system that meets the requirements of international ISO standards. Every year the company undergoes the recertification process of this quality control system and proves its quality compliance with the requirements of ISO 9001 and ISO 13485 standards, as well as compliance with the European Directive for in-vitro diagnostics, which allows to mark the products with the CE mark. Thus, the company has all the necessary documents for the export of its products to the abroad market.

For the production of our reagents we use particularly pure raw materials manufactured by the largest American and European companies. All of the raw materials that we purchase are subject to the additional mandatory quality control and we consider this factor to be one of the most important to ensure the high quality of the final product.

In order to be competitive and meet European standards, Vital continually upgrades its production facilities. Nowadays many production stages are automated, which allows us to respond quickly to the changing demand of the consumer market, to adjust the warehouse stocks and always offer our clients a wide range of high-quality test systems.

Currently we produce the following products:

1. Reagent kits for clinical chemistry (acute phase proteins, lipids, substrates, enzymes, electrolytes (pic. 1):

- Different forms: liquid and lyophilized
- Available in varied packaging to meet the requirements of our clients
- Standard is included into the reagent kit
- Multiple methods for the determination of biochemical parameters for manual, semi-auto and auto systems

2. Control materials:

- Control serums derived from the donor human blood
- Available in varied packaging to meet the requirements of our clients

3. ELISA kits (pic. 2):

- Some of our ELISA represent the 3rd generation kits with the most broad range of linearity
- Some methods do not require shaking or thermostating

4. Water purification system Prodeion (pic. 3):

- Designed for clinical, pharmaceutical and biomedical laboratories
- Ten different models with productivity 10, 20 and 40 L/h
- Output product is water with resistivity 18,2 MΩ x cm (five step purification system consists of mechanical filter, carbon filter, reverse osmosis membrane and 2 ion exchange cartridges)

Vital is specialized on the development of new products and on the improvement of the existing ones. Our huge experience allows us to enter new sales markets and to increase company's turnover annually.

pic. 1



pic. 2



pic. 3





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XEMA CORPORATE GROUP

The Xema Corporate Group started from a small contracted company in Moscow 25 years ago. Now, our group has established sister companies in Belorussia, Ukraine, Finland and China. Our products — antibodies, antigens, ELISA & rapid LF tests — have been sold globally with annual sale of ca. 8 million dollars in 2016.

Xema owns a large industrial hybridoma collection, animal facilities, protein purification and kit assembly units. We are able to provide key immunoassay reagents — monoclonal and polyclonal antibodies (incl. matched pairs), purified antigens (human, animal, food) and conjugates with HRPO, biotin or fluorescent dyes. We are also able to meet your requests of bulk orders with a capacity of over 20.000 ELISA kits and more than 1 g of single monoclonal antibody per month.

Our IVD kit development, production and sales has been certified to ISO 9001 (not supported now) and ISO 13485 since 2003.

We are proud to maintain vigorous research work and be at the edge in the area of biochemistry and immunology being a member of scientific societies (ISOBM, ASCO, AACC, AOAC).

Our product development is focused on the following topics:

1. Xema Clinical Diagnostics: tests for determination of tumor markers, hormones, infections, pre- and neonatal screening, allergy and food intolerance, humoral immunity, quality control sera for immunoassays, etc.
2. Xema Food & Environment Testing: tests to determine food constituents and food contaminants — antibiotics, fungi/fungal toxins, food allergens, undesired food components (e.g. Halal check tests to detect pork and alcohol in food/beverages/cosmetics), water quality test, etc.
3. Xema Veterinary Diagnostics: immunoassays for hormones, infections and allergy and inflammation markers for pets and cattle. Apart from laboratory tests, we offer simple pet animal urine tests for home use
4. Xema Forensic Tests: rapid LF tests to detect traces of human sperm
5. Blood and urine





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FEDERATION OF LABORATORY MEDICINE

The constituent Assembly of Association of laboratory specialists and organizations Federation of laboratory medicine (FLM) was held at 30 June 2014 in Irkutsk at Irkutsk Diagnostic Center. The co-founders were 6 the Russian public, scientific-practical, medical non-profit organizations in the field of laboratory diagnostics. 7 October 2014 Federation of laboratory medicine has been registered in the Ministry of



Justice of the Russian Federation as a legal entity. Today, the Federation of laboratory medicine, whose President is Anatoly G. Kochetov is a professional laboratory community, on March 2017 including 71 legal entities and 5700 individual persons. Federation of laboratory medicine continues to expand, and by integrating all lab specialists, including specialists with higher and secondary education, working in medical laboratories, but also scientists, educators, producers, managers, community is a laboratory of a new type and gives the possibility of solving the accumulated problems of laboratory service through genuine community participation in the work of the national health system. Dynamic and constantly updated website of the Association FLM contains latest news of laboratory medicine, normative documents, information on the activities of the Association FLM and also the opportunity to obtain legal support for professionals in the field of laboratory diagnostics. The Association has own printed edition — scientific-practical journal



"Laboratory services" included in the list of scientific editions in which should be published basic scientific results of theses on competition of a scientific degree of candidate of Sciences, on competition of a scientific degree of the doctor of Sciences. The journal is intended for heads of medical institutions, lab specialists, representatives of related professions, manufacturers and suppliers of medical products.



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