



**TÉCPAR**  
INSTITUTO DE TECNOLOGIA DO PARANÁ

## HEALTHCARE INDUSTRY PRODUCTS

The Paraná Institute of Technology (Tecpar) is a leading science and technology institution in the healthcare sector and has been active since its foundation in the production of biological medicines, vaccines and diagnostic kits for animal and human use.

Since its inauguration, Tecpar's production has met government demands at the municipal, state and federal levels.

Today, Tecpar is diversifying its technological platform in the health area, with new projects to supply medicines and healthcare products and thus support the Unified Health System (SUS) with strategic medicines for Brazilian public health.

### VETERINARY RABIES VACCINE

In the area of healthcare, Tecpar acts as an official public laboratory, supplying the Ministry of Health with veterinary rabies vaccine. With the vaccine developed by Tecpar, Brazil has managed to control cases of human and animal rabies.

Since the beginning of production more than four decades ago, Tecpar has used different production methods and, due to the continuous improvement of the technology used, it has developed a production process that uses the perfusion method for cell culture and production of rabies viruses. The unprecedented method, entirely developed by Tecpar, has been patented by the National Industrial Property Institute (INPI).



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## VETERINARY RABIES SEROLOGY









The Paraná Institute of Technology (Tecpar) is the first laboratory in southern Brazil accredited to carry out rabies serology tests that are accepted in Europe, America and Asia.

The exam is a legal requirement for Brazilian travelers who want to take their pets with them on international trips.

Tecpar's first qualification was with the European Union in 2021. To obtain accreditation, it was necessary to pass a proficiency test organized by the French agency *Anses-Nancy*, an EU reference laboratory.

Tecpar was also the first laboratory in the southern region to be accredited by the *Centers for Disease Control and Prevention* to carry out serology tests on companion animals for the USA.

Currently, the tests carried out by Tecpar are accepted in the following countries:

 United States	 Norway
 European Union	 South Korea
 United Kingdom	 United Arab Emirates
 Switzerland	 China

### STEP BY STEP

The World Health Organization (WHO) establishes that travelers who want to take their pets to countries that require the International Veterinary Certificate (CVI) to have their animals tested and present the rabies serology report. The document proves that the animal that has received the rabies vaccine in Brazil really is immunized and has produced antibodies against the rabies virus.

To do this, the guardian must contact a veterinarian, who will advise on the necessary procedures and request the test from a qualified laboratory, as well as provide the animal's health certificate afterwards. The sample for the test must be taken at a veterinary clinic or laboratory.



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**LABORATÓRIO  
EM CONSTRUÇÃO**

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## VETERINARY DIAGNOSTIC KITS

The Paraná Institute of Technology (Tecpar) is preparing the new Veterinary Diagnostic Input Research and Production Laboratory to manufacture inputs for the diagnosis of bovine leukosis, brucellosis and tuberculosis.

The new unit will be located at Tecpar's CIC campus in Curitiba. The total area of the new laboratory will be around 3,000 square meters and the unit is expected to have a production capacity of 40 million doses a year.

### PRODUCTS

In all, seven veterinary inputs will be produced by Tecpar:

- Bovine Tuberculin PPD
- Avian Tuberculin PPD
- Buffered Acidified Plate Antigen (AAT)
- Slow Test (PL) in tubes
- Milk Ring Test (RT)
- Kit for diagnosing bovine brucellosis
- Kit for diagnosing bovine leukosis

### ECONOMIC IMPACT

Brucellosis and tuberculosis are caused by bacteria and their control requires the adoption of Good Agricultural Practices (BPA). Brucellosis affects different animal species and also the human population.

In addition to reproductive problems, the occurrence of brucellosis in the herd causes economic damage such as a reduction in milk and meat production.

One of the most important zoonotic diseases for public health, bovine tuberculosis is a chronic bacterial disease that can affect ruminants, pigs, birds, wild animals and humans.



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## CERTIFICATION OF PRODUCTS AND MANAGEMENT SYSTEMS

Tecpar Certificação is the division of the Paraná Institute of Technology (Tecpar) responsible for certifying products and management systems and has been operating throughout Brazil since 1997. The compliance assessment and certification programs are structured according to international standards, guaranteeing a recognized and safe process.

Product certification is a systematic process carried out to ensure that a product/service meets specified requirements, and can be compulsory or voluntary in nature.

Compulsory when the regulatory body considers that the product may pose risks to consumer safety, the environment or when the product's performance, if inadequate, may cause economic damage to society. Voluntary when it is the decision of an organization interested in adding value to its product by setting it apart from the competition.

### MANAGEMENT SYSTEMS:

- Quality Management System (NBR ISO 9001)
- Environmental Management System (NBR ISO 14001)
- SiAC Compliance with PBQP-H (Brazilian Program for Quality and Productivity of Habitat)
- LIFE
- Occupational Health and Safety Management System (ISO 45001)
- Safety, Health, Environment and Quality Assessment System (SASSMAQ - Road Module)
- Road Traffic Safety Management System (ISO 39001)

### PRODUCTS:

- Electric wires, cables and flexible cords
- Plugs and sockets
- Switches
- Household appliances
- Production of *fresh* organics or processed food
- Storage units in a natural environment



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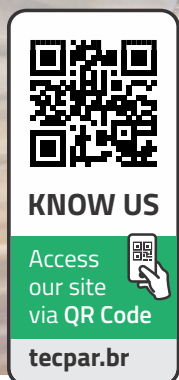
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## CERTIFICATION OF ORGANIC PRODUCTS

Tecpar Certificação is the division of the Paraná Institute of Technology (Tecpar) responsible for certifying organic products and has been operating throughout Brazil. It was the first in the country to act as a regulatory body for organics.

Tecpar currently offers certification for organic products, as part of the Paraná Mais Orgânico state program.

### PRIVATE MARKET

Organics certification is an opportunity to develop the production of family farmers, bringing benefits such as increased income, professionalization and access to new markets.

With certification, the production or processing unit will be authorized to use the Brazilian Organic Conformity Assessment System, which is essential for marketing products throughout the country.

The seal can be awarded to farmers who work in the following areas: primary plant and animal production; processing of plant and animal products or organic sustainable extraction.

Certified producers will also be able to take part in programs that encourage the purchase of family farming products.

### PARANÁ MAIS ORGÂNICO PROGRAM

Paraná Mais Orgânico is a state program linked to the Paraná Secretariat of Science, Technology and Higher Education (SETI) aimed at guiding family farmers interested in producing food organically, which also aims to certify organic food producers in the state.

Tecpar is one of the partners in the program, which involves the seven state universities and the Institute of Rural Development of Paraná (IDR-Paraná). After receiving guidance and assistance from these institutions, the producers are sent to Tecpar to obtain the property's certification seal, which is issued by the institute after the audit.



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## ENVIRONMENTAL CERTIFICATION

Tecpar Certificação is the division of the Paraná Institute of Technology (Tecpar) responsible for certifying organic products and has been operating throughout Brazil. One of the key areas is environmental certification, such as carbon emissions, environmental management and sustainability.

### CARBON EMISSION VALIDATION

In 2023, Tecpar launched a program to support companies interested in validating and verifying carbon and greenhouse gas projects and inventories. Through the program, Tecpar Certificação assesses the methodology used to prepare projects that measure carbon emissions, reductions and removals, and certifies that it has been applied correctly.

The exclusive program was developed by Tecpar Certificação's technical team and follows a series of procedures based on standards and reference literature, such as NBR ISO 14065:2015, which deals with the requirements for greenhouse gas validation and regulatory bodies.

In addition to validating the methodologies used by specialized companies and consultancies, the program serves clients who have defined their own way of quantifying carbon emissions and stocks, without the participation of intermediaries.

Carbon credits allow companies to reduce their carbon footprint and become more sustainable. They can be negotiated through purchase and sale, depending on the company's needs.

### ENVIRONMENTAL MANAGEMENT (ISO 14001)

Environmental certification assures companies of their commitment to the environment. Tecpar Certificação is Tecpar's certification body, accredited by the General Coordination for Accreditation of Inmetro (Cgcre) for the NBR ISO 14001 environmental management system, with international recognition from the *International Accreditation Forum* (IAF).

The certification of systems carried out by Tecpar enables organizations to demonstrate their commitment to organizational development and customer satisfaction.

### LIFE CERTIFICATION

In Brazil, Tecpar Certificação was the first organization accredited to offer LIFE Certification, a recognition developed by the LIFE Institute for companies committed to biodiversity.

Life Certification recognizes organizations that promote voluntary and effective biodiversity conservation actions, contributing to the maintenance of natural areas, ecological processes and the continuity of ecosystem services. The proposal is to assess the organization's impacts on biodiversity, followed by the mitigation or compensation of these impacts through a series of concrete actions for biodiversity conservation.



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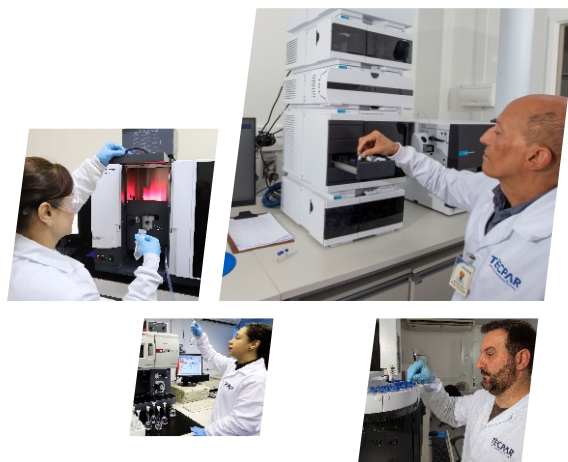
## HEALTH AND ENVIRONMENTAL TECHNOLOGY

The Center for Health and Environmental Technology of the Paraná Institute of Technology (Tecpar) carries out tests that assess the compliance of products and raw materials for private companies and public bodies, as well as works in Research & Development of new technological solutions.

The laboratory's competencies are recognized by tests accredited by the General Coordination for Accreditation of Inmetro, under number CRL 0244, registered and accredited by the Ministry of Agriculture, Livestock and Food Supply (Mapa), authorized by the Brazilian Sanitary Surveillance Agency (Anvisa), as part of the Brazilian Network of Health Analytical Laboratories (Reblas No. 035) and registered with the Brazilian Water and Land Institute (IAT) under number CCL 020.

### LABORATORY ANALYSIS:

- Agrochemistry
- Antiseptic alcohol/gel
- Food and Beverage
- Mineral Water Classification
- Cosmetics
- Packaging
- Agricultural Fertilizers and Correctives
- Environment



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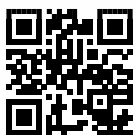


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## MATERIALS TECHNOLOGY

The Materials Technology Centre of the Paraná Institute of Technology (Tecpar) develops technological solutions, optimizes processes and products by carrying out standardized technological and quality control tests.

The center serves the industry in various segments and public bodies.

The center is accredited in chemical and mechanical tests for wood products in general by the General Coordination for **Accreditation of the National Institute of Metrology, Standardization and Industrial Quality (Inmetro)**, under number CRL 0244.

### LABORATORY TESTING/INSPECTION:

- Energy
- Physical / Chemical testing
- Wood and furniture
- Metallic Materials
- Materials for road signs
- Dental-Medical-Hospital
- Polymers and Elastomers
- Inspection of basic sanitation materials



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## INNOVATION AND SCIENTIFIC RESEARCH

One of the strategic pillars of the Paraná Institute of Technology (Tecpar), in addition to its own activities as a science and technology institute, is the support for technological and innovative entrepreneurship to generate employment and income in the state.

To this end, Tecpar has an innovation agency, a technology park, a technology incubator and a scientific journal.

### INNOVATION AGENCY

Tecpar's Innovation Agency carries out prospecting and technological intelligence activities related to the management of intellectual property for products, processes and services - from the project to its development, with a focus on business opportunities.

For the market, the unit offers the Tecpar Innovation Seal, an initiative aimed at entrepreneurs and businesspeople interested in assessing the innovative potential of their products or concepts.

### TECHNOLOGY INCUBATOR

Created in 1989 to stimulate the generation and establishment of technology-based companies in Paraná, the Tecpar Technology Incubator (Intec) was the first incubator in the state with this profile. Throughout its history, it has supported more than 100 innovative businesses.

The incubator offers resident (Curitiba campus) and non-resident incubation positions. To take part in the selection process, entrepreneurs or businesspeople must submit their Business Plan to a panel of judges. The project must contain three requirements: innovation, technological basis and proof of concept or prototype.

### TECHNOLOGY PARK

The Health Technology Park attracts companies with investment in Research and Development (R&D) and the production of innovative goods and services and encourages the creation of new technology-based companies in Paraná.

In addition to Tecpar itself, the Carlos Chagas Institute (ICC/Fiocruz), a regional technical-scientific unit of the Oswaldo Cruz Foundation in Paraná, and the Molecular Biology Institute of Paraná (IBMP), created in partnership between the State Government of Paraná and Fiocruz, are currently located in the Health Technology Park.

### SCIENTIFIC JOURNAL

Tecpar publishes the scientific journal *Brazilian Archives of Biology and Technology* (BAPT), which has been publishing scientific papers for over 75 years. Since 2001, BAPT has been available in electronic format on the *Scientific Electronic Library Online* (SciELO), a digital library of scientific articles with open access. Each year, the journal receives an average of 800 articles, of which around 15% are published.

#### Scope:

- Agriculture, agribusiness and biotechnology, human and animal health
- Food technology
- Environmental sciences
- Biology and applied sciences
- Engineering and technology



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## RESEARCH AND DEVELOPMENT

The contemporary challenges of Paraná and Brazilian society are also on the agenda of the Paraná Institute of Technology (Tecpar), an institute that reinvents itself and is guided by the country's needs. Ongoing projects include:

### ENGINEERED WOOD

A benchmark in southern Brazil for laboratory analysis in the field of wood, Tecpar has begun research into the development of new technological solutions to support the engineered wood industry.

### RENEWABLE HYDROGEN

Tecpar is part of a research and innovation network in the area of low-carbon renewable hydrogen in Paraná. The network articulates actions to boost, above all, the development of technologies, the provision of services and the training of specialized human resources, with a focus on promoting research into the production of renewable hydrogen.

### RARE DISEASES AND CANCERS

Tecpar, the Carlos Chagas Institute/Fiocruz and the Institute of Molecular Biology of Paraná work in the Center for Precision Public Health, which seeks to subsidize genomic diagnoses of patients with rare diseases and cancer, aimed at the SUS.

### HUMAN RABIES SEROLOGY

A benchmark in southern Brazil for veterinary rabies serology, Tecpar is developing a project to test rabies serology in exposed individuals at risk. The test will identify the existence of the pathogen in researchers, laboratory professionals who handle the virus, veterinarians and other citizens at risk of exposure.

### STEM CELLS

Implementation of the Scientific and Technological Center for RD&I in stem cells, aimed at technical and scientific development actions in health, involving the use of mesenchymal stem cells.

### VETERINARY INPUTS

To comply with the National Program for the Control and Eradication of Brucellosis and Tuberculosis, Tecpar is building the Veterinary Diagnostic Input Research and Production Laboratory, supporting the state's production chain.

### CANNABIS

To expand its range of quality control services, Tecpar will provide laboratory tests for cannabis-based products for medicinal purposes. The quality control tests will take into account the legal and regulatory aspects, with the adequacy of the laboratory, access and storage of samples for the development and validation of methodology, making it possible to expand the accredited scope.



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