



LACOMET

ACTIONS TAKEN BY LACOMET AGAINST COVID-19

*"We improve the quality of life of people
through reliable measurements"*

Due to the COVID 19 pandemic, our laboratory took on the task of generating actions that add to the efforts of the Costa Rican authorities to control the pandemic.





CONTINGENCY PLAN

✓ **Forma correcta de toser y estornudar**



CUBRA SU BOCA Y NARIZ CON LA PARTE SUPERIOR DEL BRAZO, HACIENDO UN SELLO PARA EVITAR SALIDA DE GOTITAS DE SALIVA



O CÚBRASE CON UN PAÑUELO DESECHABLE



DEPOSITE EL PAÑUELO EN EL BASURERO, NO LO LANCE AL MEDIO AMBIENTE

Actions to maintain continuity of service

Several actions were established to give continuity to services such as the National Metrology Institute, always attached to the sanitary measures generated by the Ministry of Health:

- Contingency plan, generated to attend to priority activities.
- Adherence to sanitary measures in the facilities:
 - Work at home
 - Prioritization of calibration services to maintain national traceability
 - Reception of equipment through appointment system
 - Hygiene protocols throughout the laboratory infrastructure
 - Continuous contact with clients through electronic channels



ATENCIÓN
LABORATORIOS SECUNDARIOS DE CALIBRACIÓN

Si tiene previstas calibraciones para los meses de abril, mayo y junio, por favor contactarse con nuestra Plataforma de Servicios

metrologia@lacomet.go.cr / 40601020-40601021

**PLAN DE CONTINGENCIA
LACOMET
COVID 19**

Marzo 2020





PERSONAL PROTECTION MASKS

Donation to the authorities of the Costa Rican Social Security

Our 3D printers were used for the manufacturing process of the structural parts, which are assembled to the custom designed transparent laser face shield. The results obtained are a functional, reusable product that offers a high level of security for the intended users.

The model has a design that can be shared so that other institutions can replicate it.





VERIFICATION OF ETHYLOMETERS

Reliable Measurements for
Road Safety

Within the national sanitary restriction measures, vehicle restriction is included, which is being regulated by the Transit Police, the City Hall Police and the National Police.

Our Legal Metrology department carries out controls on all instruments for the measurement of alcohol in drivers.

These controls ensure the quality of the process and give legal support to our authorities in alcohol tests to detect offending drivers during the pandemic.





TEST BENCH MECHANICAL VENTILATORS

Development proposal
according to ISO 80601-2-12:
2020



The development of a test bench was proposed, capable of demonstrating the functionality of the fans in accordance with the requirements established in point 200.12.1 of the ISO 80601-2-12: 2020 standard. Medical electrical equipment Part 2-12: Particular requirements for basic safety and essential performance of critical care ventilators.

We are currently in an initial stage looking for financial resources to carry out this project.





ETHANOL CONTENT IN COMMERCIAL SAMPLES OF LIQUID ALCOHOL

Joint Proposal with MEIC Quality Department



A collaboration was established from the Department of Metrology in Chemistry, to sample and determine the ethanol content in commercial liquid alcohol samples by measuring its density and refractive index. These products must contain at least 60% alcohol to be used as disinfection means.

The MEIC Quality Department is in charge of ensuring consumer protection. In this way, LACOMET provides the technical infrastructure necessary to carry out the tests and verify the quality of the commercialized product to combat, prevent and mitigate the effect of the SARS-COV-2 virus (COVID-19) in Costa Rican society.





BALANCE CALIBRATION

Inter-institutional alliances

Through the LACOMET link established from the EVI (Industrial Linking Strategy), the microbalance calibration of the Clodomiro Picado Institute of the University of Costa Rica was performed.

This was a contribution of LACOMET to other institutions that are part of the fight against COVID-19. This Institute is at the forefront of research for the development of new methods of treating the disease, using the antibodies generated by recovered patients.





THERMOMETERS OF THE COSTA RICAN SOCIAL SECURITY

Technical advice for the metrological control of temperature instruments

LACOMET has proposed to the Costa Rican Social Security, a technical advisory service to carry out a study of the types of thermometers most used in the public health system, as well as the verification of the level of compliance with technical and regulatory criteria.

The aim is that these measurement instruments are under control and allow reliable measurements for diagnostic and / or treatment purposes.

It is currently in the process of establishing the work plan with the Social Security authorities to carry out the activities.

