



HAVE AN ENVIRONMENT  
**WITH ANALYSES  
OF EXCELLENCE**

# Solutions that Promote Quality

Controllab solutions promote recognition and the excellence of your analyses.



Periodically checks the accuracy of the results.



It monitors systems analytical performance with each routine.



The Bacteria Library and Fungal Collection of your laboratory.



Data that guides the best strategic and operational decisions.



It unifies the tools of quality and monitors the analytical performance of the exams.



It adds more precision and traceability to the analytical process.



Partnerships between Controllab and suppliers of *in vitro* diagnostic to demonstrate quality.



Educating to promote quality.



Learn more about Controllab

# Why be a Controllab partner?

In the segment of analyses, where excellence is the key to success, the company stands out as a reference in innovation, efficiency, and commitment.

User evaluations confirm the quality of the services, demonstrating the positive impact on professionals' routines and the performance of establishments that trust Controllab.

Our solutions drive market recognition and enhance establishments' credibility, elevating quality standards, refining reputation, and expanding growth opportunities for the organizations that use them.



# We are Controllab

Controllab is leader in laboratory quality control in Latin America, offering a broad portfolio of complete and integrated solutions – there are more than 3,500 tests.

We operate in several segments, such as clinical, blood banking, veterinary, microbiology, and physical-chemical testing and others. We are committed to taking care of life. Focusing on delivering the best experience for users, we help customers provide accurate and recognized services in national and international markets.

We have unique know-how in quality control, supported by important scientific societies and recognized by the main standards related to our operations: ISO 9001, 17025, 17034 and 17043.

## Our Numbers

**47**  
years  
of history  
and performance

**+3500**  
tests  
periodically  
analyzed

**04**  
accreditations  
internationally  
recognized

**+20**  
years  
of accreditations  
Cgcre/Inmetro



Learn more about Controllab

# Accreditations, Certifications and Qualifications

Continuous improvement, based on quality and reliability, gives Controllab the following recognitions:



According to the scopes published in [www.gov.br/inmetro](http://www.gov.br/inmetro)



## Partnerships

With the challenge of seeking new paths and expand scientific knowledge to offer better solutions to its customers, Controllab establishes partnerships with scientific societies and universities.



Member



Associate



Learn more about Controllab

## Structure

The Controllab team consists of more than 400 direct employees, along with approximately 100 technical-scientific advisors who are committed to updating, innovation, and the quality of services. Located in Rio de Janeiro, with approximately 10,000 m<sup>2</sup> of built area, **Controllab** is divided into two structures:



### Preparation of Materials

Designed to comply with Good Manufacturing Practices of items for Proficiency Test, Internal Control, Reference Materials and Reference Strains. It disposes of areas of chemical and biological production, quality control laboratory, sterilization areas, cold chambers and freeze dryers.

### Services

It encompasses all sectors involved in the management process of Proficiency Testing, Calibration, Advisory, Training and Business Administration. Among them, Research & Development, Customer Management, Quality Assurance, Service and Project Management, Information Technology, Marketing and New Business.



## All processes

are conducted according to Good Manufacturing Practices of the Ministry of Health, AOAC/ISO/IUPAC International Protocol (homogeneity and stability of items), ABNT NBR ISO/IEC 17043:2011 (Conformity Assessment - General Requirements for Proficiency Tests) and ANVISA/GGLAS 02/43 procedure.



Learn more about Controllab



**Controllab is present in four continents.  
We assist over 15,000 users in their analyses routines.**



**We are the benchmark when it comes to laboratory quality control data.**



**Learn more about Controllab**

## Learn how Controllab's PT promotes excellence in your analyses:

- ✓ continuous;
- ✓ runs at regular intervals (2 to 4);
- ✓ test items with varying concentrations;
- ✓ annual targets;
- ✓ report for all equipment (multiple systems);
- ✓ information management system;
- ✓ it integrates with the Laboratory Information System (LIS).

### These aspects:



enable more agility and efficiency in performance analyses.



simplify auditing process.



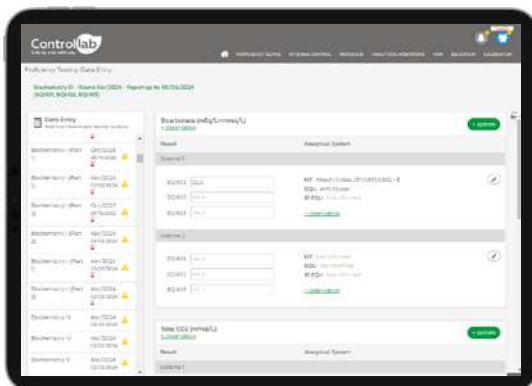
demonstrate compliance with legislation.



enhance the understanding of analyses.

**More than 3,500 tests available for Control of Quality.**  
This diversity of exams aims to meet the demands of analysis establishments and the growing technological innovation in the segments.

Discover our  
**Online Catalog**

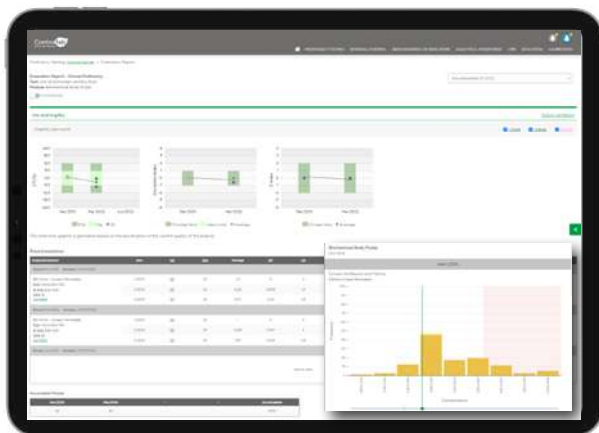
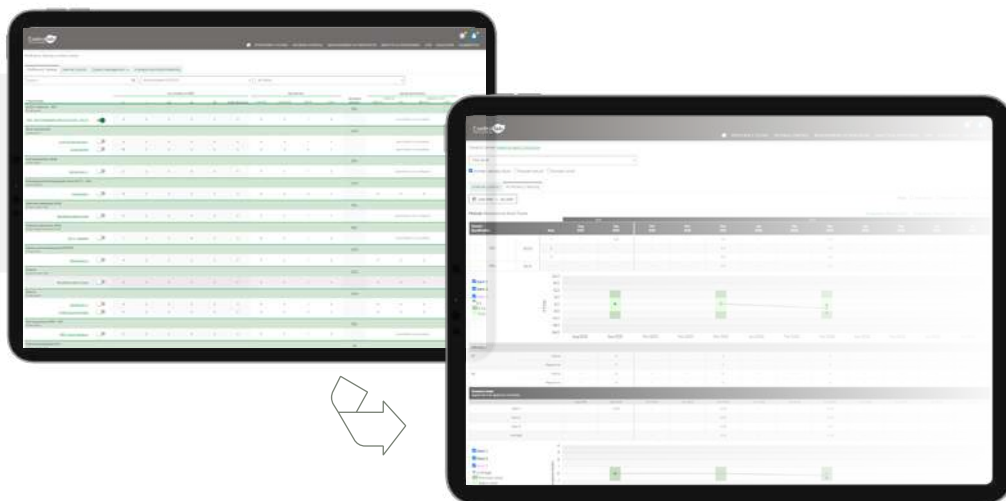


Get a comprehensive overview of the analyses by **reporting results to all equipment** (multiple systems) in the routine. Monitor the unique behaviors of each system individually.



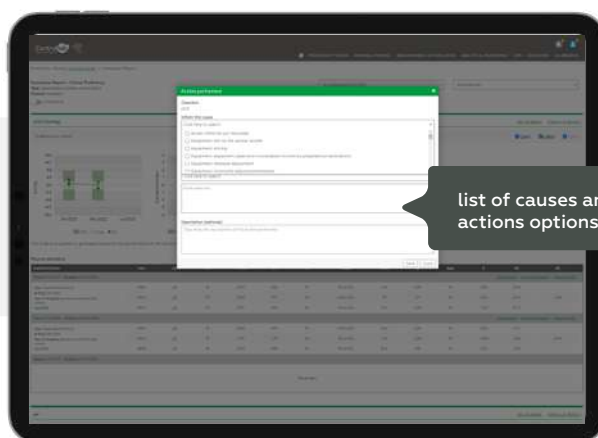
Learn more about Proficiency Testing

**Management summary** which simplifies the tracking and consultation of exam information.



**Graphs in periodical evaluation and over time** for trend analysis and assistance in prevention and identification of causes of non-conforming results.

**History and tracking** actions on the results that show the treatment of data for audits and promote the evolution of management.



list of causes and actions options



Learn more about Proficiency Testing

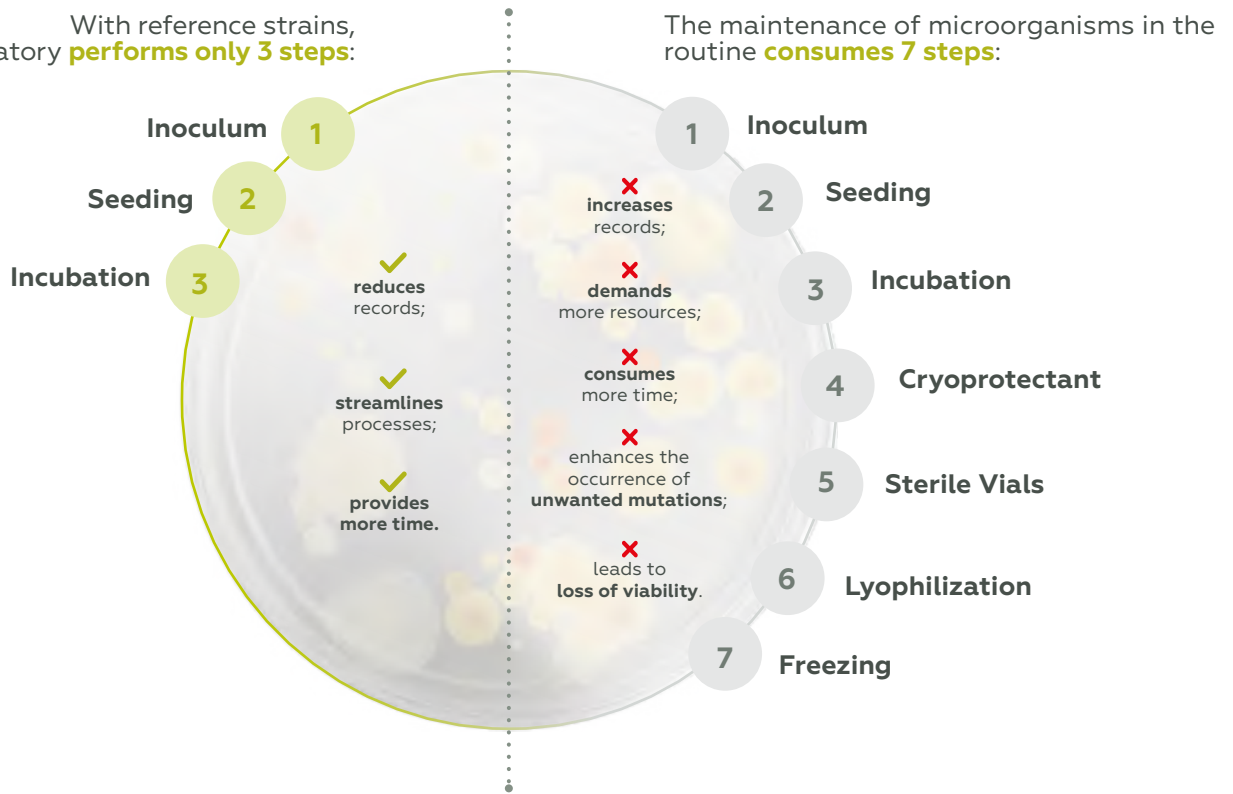




## Ensure credibility with the most renowned cultures in Europe

Have regular access to lyophilized and certified reference strains, according to the frequency programmed by your routine and save maintenance resources in your laboratory.

### Check out the practicality:



The UKHSA – UK Health Security Agency granted Controllab recognition of technical competence and capacity compatible with the collection of licensed cultures: NCPF and NCTC, which is the oldest collection for bacteria in the world.



Controllab's reference strains ensure your laboratory access to a service with internationally recognized quality standards.



Available for immediate delivery in passages of up to a maximum of the 3<sup>rd</sup> generation.



They meet standards such as CLSI, BrCAST - EUCAST, AFNOR, FDA, ISOs, Pharmacopoeias, among others.



Demonstrate compliance with accreditation processes and regulations.



Learn more about Strains of Reference



**Lyophilized strains of NCTC and NCPF origin.**

Accompanied by a sheet with safety data and a certificate of analysis containing the characteristics of the microorganism.

In addition to Brazil, countries such as Argentina, Bolivia, Chile, Colombia, Ecuador, Paraguay, Peru, Suriname, Uruguay and Venezuela can benefit from this initiative.

**Gram and AFB controls help laboratories evaluate new dye/reagent lots**



**Gram CONTROL**

Smear slides containing *Staphylococcus aureus* and *Escherichia coli* microorganisms.



**AFB CONTROL**

Smear slides containing *Mycobacterium tuberculosis* and *Escherichia coli* microorganisms.

The reference strains are applied in internal control materials for bacteriology. This application streamlines the laboratory routine, making it faster, more economical and efficient in tests and records to guarantee quality and provide evidence in audits.





















Learn more about Strains of Reference

Bacterias	NCTC®	WDCM	ATCC®	Bacterias	NCTC®	WDCM	ATCC®
<i>Acinetobacter baumannii</i>	12156	—	19606	<i>Escherichia coli</i>	13476	—	—
<i>Acinetobacter baumannii</i>	13304	—	—	<i>Escherichia coli</i>	13846	—	—
<i>Aeromonas hydrophila</i>	12902	—	35654	<i>Haemophilus influenzae</i>	8468	—	9334
<i>Alcaligenes faecalis</i>	12904	—	35655	<i>Haemophilus influenzae</i>	12699	—	49247
<i>Bacillus cereus</i>	10320	00001	11778 19637 / 9634	<i>Haemophilus influenzae</i>	12975	—	49766
<i>Bacillus subtilis</i>	10400	00003	6633	<i>Haemophilus influenzae</i>	13377	—	—
<i>Bacteroides distasonis</i>	11152	—	8503	<i>Klebsiella aerogenes</i>	10006	00175	13048
<i>Bacteroides fragilis</i>	9343	—	25285	<i>Klebsiella oxytoca</i>	8167	—	—
<i>Bacteroides ovatus</i>	11153	—	8483	<i>Klebsiella pneumoniae</i>	9633	00097	13883
<i>Bacteroides vulgatus</i>	11154	—	8482	<i>Klebsiella pneumoniae</i>	13368	—	700603
<i>Burkholderia cepacia</i>	10743	—	25416	<i>Klebsiella pneumoniae</i>	13438	—	—
<i>Campylobacter jejuni</i>	11351	—	33560	<i>Klebsiella pneumoniae</i>	13440	—	—
<i>Campylobacter jejuni</i>	13367	00005	33291	<i>Klebsiella pneumoniae</i>	13442	—	—
<i>Citrobacter freundii</i>	9750	—	8090	<i>Klebsiella pneumoniae</i>	13443	—	—
<i>Clostridium bifermentans</i>	506	00079	—	<i>Klebsiella pneumoniae</i>	13809	—	BAA 1705
<i>Clostridium difficile</i>	13566	—	43593	<i>Kocuria rhizophila</i>	8340	—	9341
<i>Clostridium perfringens</i>	8237	00007	13124 / 19408	<i>Legionella pneumophila</i>	11192	00107	33152
<i>Clostridium perfringens</i>	13170	00201	—	<i>Legionella pneumophila</i>	12821	00205	—
<i>Clostridium septicum</i>	547	—	12464	<i>Listeria innocua</i>	11288	00017	33090
<i>Clostridium sporogenes</i>	532	00008	19404	<i>Listeria monocytogenes</i>	11994	00019	—
<i>Clostridium sporogenes</i>	12935	—	11437	<i>Listeria monocytogenes</i>	13372	—	7644
<i>Corynebacterium pseudodiphtheriticum</i>	11136	—	10700/7091	<i>Listeria monocytogenes</i>	13627	00020	19111
<i>Corynebacterium renale</i>	7448	—	19412	<i>Micrococcus luteus</i>	7743	—	10240
<i>Cronobacter sakazakii</i>	11467	00214	29544	<i>Mycobacterium smegmatis</i>	8159	—	19420
<i>Enterobacter cloacae</i>	10005	00083	13047	<i>Neisseria gonorrhoeae</i>	8375	—	19424
<i>Enterobacter hormaechei</i>	13870	—	700323	<i>Neisseria gonorrhoeae</i>	12700	—	49226
<i>Enterococcus faecalis</i>	775	00009	19433	<i>Proteus mirabilis</i>	11938	00023	29906
<i>Enterococcus faecalis</i>	12697	00087	29212	<i>Proteus vulgaris</i>	4175	—	13315
<i>Enterococcus faecalis</i>	13379	00085/00152	51299	<i>Pseudomonas aeruginosa</i>	10662	00114	25668
<i>Enterococcus faecalis</i>	13763	00210	33186	<i>Pseudomonas aeruginosa</i>	12903	00025	27853
<i>Enterococcus faecium</i>	12202	—	—	<i>Pseudomonas fluorescens</i>	10038	00115	13525
<i>Enterococcus hirae</i>	13383	00011	10541	<i>Salmonella enterica</i>	6017	00029	BAA-2162
<i>Escherichia coli</i>	9001	00090/00155	11775	<i>Salmonella enterica</i>	6676	—	—
<i>Escherichia coli</i>	11954	—	35218	<i>Salmonella enterica</i>	12023	00031	14028
<i>Escherichia coli</i>	12241	00013	25922	<i>Shigella flexneri</i>	12698	00126	12022
<i>Escherichia coli</i>	12900	00014	700728	<i>Staphylococcus aureus</i>	6571	00035	9144
<i>Escherichia coli</i>	12923	00012/00196	8739	<i>Staphylococcus aureus</i>	7447	00033/00195	6538P
<i>Escherichia coli</i>	13216	00202	—	<i>Staphylococcus aureus</i>	10788	00032/00193	6538
<i>Escherichia coli</i>	13353	—	—	<i>Staphylococcus aureus</i>	12493	00212	—
				<i>Staphylococcus aureus</i>	12973	00131	29213
				<i>Staphylococcus aureus</i>	12981	00034	25923



Learn more about Strains of Reference

Bacterias	NCTC®	WDCM	ATCC®
<i>Staphylococcus aureus</i>	 13373	00211	43300
<i>Staphylococcus aureus</i>	 13552	—	—
<i>Staphylococcus aureus</i>	 13811	—	BAA-977
<i>Staphylococcus aureus</i>	 13812	—	BAA 976
<i>Staphylococcus aureus</i>	 13813	—	BAA 1708
<i>Staphylococcus aureus</i>	 14033	—	BAA 1026
<i>Staphylococcus epidermidis</i>	 11047	00132	14990
<i>Staphylococcus epidermidis</i>	 13360	00036	12228
<i>Staphylococcus xylosum</i>	11043	—	29971
<i>Stenotrophomonas maltophilia</i>	10257	—	13637
<i>Streptococcus agalactiae</i>	 8181	—	13813
<i>Streptococcus equi</i>	 7023	—	43079
<i>Streptococcus mutans</i>	 10449	—	25175
<i>Streptococcus pneumoniae</i>	 12977	—	49619
<i>Streptococcus pyogenes</i>	 12696	—	—
<i>Vibrio furnissii</i>	 11218	00186	—
<i>Vibrio parahaemolyticus</i>	 10903	00037	17802
<i>Yersinia enterocolitica</i>	11176	—	—

Fungi	NCPF®	WDCM	ATCC®
<i>Aspergillus brasiliensis</i>	 2275	00053	16404
<i>Candida albicans</i>	 3179	00054	10231
<i>Candida albicans</i>	 3255	00055	2091
<i>Candida albicans</i>	 3939	—	90028
<i>Saccharomyces cerevisiae</i>	 3191	—	9763
<i>Saccharomyces cerevisiae</i>	 3275	—	—

 Certified Reference Material, scope no. PMR 0009, in accordance with the ABNT NBR ISO 17034 standard.

 Meets BrCAST recommendations

 Meets CLSI recommendations

**Note 1:** The NCTC and NCPF strains licensed by UKHSA are equivalent to the ATCC® strains referred to in this table.

**Note 2:** Other strains not listed available on request.



Learn more about Strains of Reference



**Blood Components**

Blood Components ..... C **H** A

**Body Liquids**

Cavity Liquids Cell Count by Automation ..... C H A  
 CSF - Alzheimer's Markers ..... C H A  
 CSF - Amino Acid ..... C H A  
 CSF - Automated Cell Counting ..... C H A  
 CSF - HIV Research ..... C H A  
 CSF - HTLV Research ..... C H A  
 CSF - Immunology ..... C H A  
 CSF - Microscopy ..... C H A  
 CSF - Multiparameter ..... C H A  
 CSF - Tumor Markers ..... C H A  
 Cysticercosis ..... C H A  
 Eosinophil Research: Nasal Mucus ..... C H A  
 Multiparameter Cavity Liquids ..... C H A  
 Saliva ..... C H A  
 Sweat ..... C H A  
 Synovial Fluid Crystals/Crystalline Structures ..... C H A  
 Vitreous Humor ..... C H A

**Cardiac Markers**

Cardiac C Reactive Protein (hsPCR) ..... C H A  
 Cardiac Markers ..... C H A  
 Coenzyme Q10 ..... C H A

**Clinical Chemistry**

Amino Acids - Plasma ..... C H A  
 Biliary Calculus ..... C H A  
 Biochemistry ..... C H A  
 C Vitamin ..... C H A  
 Cystatin C ..... C H A  
 Glucose 6-Phosphate Dehydrogenase (G6PD) ..... C H A  
 K Vitamin ..... C H A  
 Serum Calprotectin ..... C H A  
 Vitamins (B-Complex): Plasma and Whole Blood ..... C H A

**Coagulation/Haemostasis**

Anti-Xa Activity ..... C **H** A  
 Coagulation and Haemostasis ..... C **H** A  
 D-dimer ..... C **H** A  
 Lupus Anticoagulant ..... C **H** A  
 Platelet Aggregation ..... C **H** A  
 Platelet Anti-Aggregation Drugs ..... C H A  
 Thromboelastogram ..... C H A

**Coprology/Occult Blood**

Calprotectin ..... C H A  
 Coprology ..... C H A  
 Eosinophils Research: Stool ..... C H A  
 Fecal Occult Blood ..... C H A

**Diabetes/Hemoglobins**

Diabetes Markers ..... C H A  
 Diabetes mellitus ..... C H A  
 Glycated Hemoglobin ..... C H A

HbS: Sickle Test ..... C H A  
 Hemoglobin H Research ..... C H A  
 Hemoglobinopathies ..... C **H** A  
 Osmotic Fragility ..... C H A

**Flow Cytometry**

CD34+ ..... C **H** A  
 Lymphocyte Panel ..... C **H** A  
 Paroxysmal Nocturnal Hemoglobinuria (PNH) ..... C **H** A  
 Screening for Acute Leukemias ..... C **H** A

**Gasometry**

Blood Gas: Biochemistry ..... C H A  
 Blood Gas: Hematocrit ..... C H A  
 Blood Gas ..... C H A  
 Oximetry ..... C H A

**Genetics and Molecular Biology**

*Acinetobacter baumannii* ..... C H A  
 Adenovirus ..... C H A  
 Apolipoprotein E ..... C H A  
*Aspergillus* spp. .... C H A  
 Bloodstream Infections and Sepsis ..... C H A  
*Bordetella* ..... C H A  
*Brucella* spp. .... C H A  
*Campylobacter* ..... C H A  
*Candida* ..... C H A  
 Chagas ..... C H A  
 Chikungunya ..... C H A  
*Chlamydia trachomatis* ..... C H A  
*Citrobacter* ..... C H A  
*Clostridium difficile* ..... C H A  
 Coronavirus (SARS-CoV2) ..... C H A  
 Cytomegalovirus ..... C H A  
 Dengue ..... C H A  
*Enterobacter* ..... C H A  
*Enterococcus* ..... C H A  
 Enterovirus ..... C H A  
 Epstein Barr ..... C H A  
 Erythrovirus B19 ..... C H A  
*Escherichia coli* ..... C H A  
 Factor V Leiden - Mutation Research ..... C H A  
 Fetal Sexing ..... C H A  
 G-Banding Karyotype: Constitutional ..... C H A  
 G-Banding Karyotype: Fetal ..... C H A  
 G-Banding Karyotype: Tumor ..... C H A  
*Giardia* sp. .... C H A  
 Hemochromatosis - Mutation Research ..... C H A  
 Hepatite B (HBV) ..... C H A  
 Hepatite C (HCV) ..... C H A  
 Hepatitis (HEV) ..... C H A  
 Hepatitis Delta (HDV) ..... C H A  
 Herpes Simplex Virus (HSV) ..... C H A  
*Histoplasma capsulatum* ..... C H A  
 HIV ..... C H A  
 HTLV ..... C H A  
 Human Papillomavirus (HPV) ..... C H A



See more program details in our Online Catalog

C Clinical Analysis    H Hemotherapy    A Pathological Anatomy and Cytopathology

Influenza A and B	C	H	A
Janus kinase 2 (JAK-2) - Mutation Research	C	H	A
<i>Klebsiella</i>	C	H	A
<i>Legionella</i>	C	H	A
Leptospirosis	C	H	A
Mayaro	C	H	A
Meningitis and Encephalitis	C	H	A
Molecular Epidemiology Surveillance	C	H	A
Monkeypox (MPX)	C	H	A
MTHFR - Mutation Research	C	H	A
<i>Mycobacterium tuberculosis</i>	C	H	A
<i>Mycoplasma pneumoniae</i>	C	H	A
NAT - Molecular Biology	C	H	A
<i>Neisseria gonorrhoeae</i>	C	H	A
Norovirus	C	H	A
<i>Paracoccidoides brasiliensis</i>	C	H	A
Parentage Testing (Paternity/Maternity)	C	H	A
Polyomavirus BK	C	H	A
Polyomavirus JC	C	H	A
Prothrombin - Mutation Research	C	H	A
Respiratory Infections and Pneumonia	C	H	A
Rotavirus	C	H	A
<i>Salmonella</i>	C	H	A
Sequencing - Bacterial Genome Detection	C	H	A
Sequencing - Coronavirus (SARS-CoV2)	C	H	A
Sequencing - Detection of Genome Fungi and Yeasts	C	H	A
Sequencing - Neonatal Screening	C	H	A
Sequencing - Viral Genome Detection	C	H	A
<i>Sporothrix schenckii</i>	C	H	A
<i>Staphylococcus</i>	C	H	A
STIs and Vaginosis	C	H	A
<i>Streptococcus</i> Group A	C	H	A
<i>Toxoplasma gondii</i>	C	H	A
Varicella-Zoster	C	H	A
Yellow Fever	C	H	A
Zika Virus	C	H	A

**Hematology/Hematoscopy**

Automated Reticulocytes	C	H	A
Bone Marrow Biopsy	C	H	A
Donor Selection	C	H	A
Erythrocyte Sedimentation Rate (ESR)	C	H	A
Hematology Automation	C	H	A
Hematoscopy	C	H	A
Hemoparasitology	C	H	A
LE Cell Search	C	H	A
Manual Hematology	C	H	A
Manual Reticulocytes	C	H	A
Myelogram	C	H	A
Pesquisa de Corpúsculos de Heinz	C	H	A

**Histocompatibility**

Antigen HLA-B-27	C	H	A
Molecular Typification HLA	C	H	A

**Immunoassays/Endocrinology**

Anemia	C	H	A
Bone Marrow / Growth Markers (Serum and Urine)	C	H	A
Catecholamines	C	H	A
Hypertension Markers	C	H	A
Lipid Profile	C	H	A
Procalcitonin	C	H	A
Specialized Hormones	C	H	A
Tumor Markers	C	H	A

**Immunochemistry/Transfusion Medicine**

Immunochemistry - Anti-A Anti-B and Anti-D Titer	C	H	A
Immunochemistry - Automation	C	H	A
Immunochemistry - Crossmatch	C	H	A
Immunochemistry - Elution	C	H	A
Immunochemistry - General	C	H	A
Immunochemistry - IAI	C	H	A
Immunochemistry - Rh and Kell Phenotypes	C	H	A
Immunochemistry - TAD	C	H	A

**Immunology/Proteins**

Allergy	C	H	A
ANA Hep-2	C	H	A
Anti-CCP	C	H	A
Anti-thyroperoxidase (Anti-TPO)	C	H	A
Anticardiolipin	C	H	A
Antiphospholipid Antibodies	C	H	A
Antistreptolysin O	C	H	A
Autoimmunity	C	H	A
C Reactive Protein (CRP)	C	H	A
Circulating Immunocomplexes	C	H	A
Cryoglobulins	C	H	A
Food Intolerance	C	H	A
Immunofixation of Proteins - Serum and Urine	C	H	A
Interleukins	C	H	A
<i>Mycobacterium tuberculosis</i> (IFN-gamma)	C	H	A
Rheumatoid Factor	C	H	A
Specific Proteins, Protein Electrophoresis and Immunoproteins	C	H	A

**Infectious Diseases/Serology**

Adenovirus	C	H	A
Anti-HAV (Hepatitis A)	C	H	A
Anti-HBc (Hepatitis B)	C	H	A
Anti-HBe	C	H	A
Anti-HBs	C	H	A
Anti-HCV	C	H	A
Anti-HDV (Hepatitis D)	C	H	A
Anti-HIV	C	H	A
Anti-HTLV	C	H	A
<i>Aspergillus</i> sp.	C	H	A
<i>Bartonella henselae</i>	C	H	A
<i>Borrelia burgdorferi</i>	C	H	A
Brucellosis	C	H	A
<i>Candida albicans</i>	C	H	A
Chagas	C	H	A



See more program details in our Online Catalog

C Clinical Analysis    H Hemotherapy    A Pathological Anatomy and Cytopathology

Chikungunya	C	H	A
<i>Chlamydia trachomatis</i>	C	H	A
<i>Clostridium tetani</i>	C	H	A
Coronavirus (SARS-CoV2)	C	H	A
Coronavirus Neutralizing Antibodies Research (SARS-CoV2)	C	H	A
Cytomegalovirus (CMV)	C	H	A
Dengue IgG, IgM e NS1	C	H	A
<i>Entamoeba histolytica</i>	C	H	A
Epstein-Barr Virus (EBV)	C	H	A
Erythrovirus B19	C	H	A
<i>Giardia lamblia</i>	C	H	A
Hantavirus	C	H	A
HBeAg	C	H	A
HBsAg	C	H	A
<i>Helicobacter pylori</i>	C	H	A
Hepatitis Delta	C	H	A
Herpes (HSV)	C	H	A
Histoplasmosis	C	H	A
Leptospirosis	C	H	A
Measles	C	H	A
Mumps	C	H	A
<i>Mycoplasma pneumoniae</i>	C	H	A
Paracoccidiodomycosis	C	H	A
Parainfluenza 1,2,3 and 4	C	H	A
Rubella	C	H	A
Syphilis	C	H	A
Toxoplasmosis	C	H	A
Varicella-Zoster	C	H	A
Visceral Leishmaniasis	C	H	A
Widal Reaction	C	H	A
Yellow fever	C	H	A
Zika virus	C	H	A

**Maternal-Fetal Medicine**

Bacteriology - Amniotic Liquid	C	H	A
Biochemistry - Amniotic Liquid	C	H	A
Clement's Test (TC)	C	H	A
Evaluation of Fetal Bilirubin	C	H	A
Fetal Fibronectin	C	H	A
Fetal Growth	C	H	A
Fetal Risk Assessment: 1st Trimester	C	H	A
Fetal Risk Assessment: 2nd Trimester	C	H	A
Hemoglobin F Research - Flow Cytometry	C	H	A
Kleihauer-Betke test (Hemoglobin F)	C	H	A
Lamellar Body Count (CCL)	C	H	A
Maternal Screening	C	H	A
Nile Blue Test (Kittrich)	C	H	A
PH Determination Test	C	H	A
Phenol Testing	C	H	A
Pre-eclampsia Markers	C	H	A
Premature rupture of membranes: Fern Test	C	H	A
Pulmonary Maturity	C	H	A
Rosette Test	C	H	A
Surfactant/Albumin Ratio (TDx-FLMII)	C	H	A
Test of lanetta	C	H	A
Vaginal Wash	C	H	A

**Microbiology**

Acanthamoeba Research	C	H	A
Adenovirus - Antigen	C	H	A
AFB Bacilloscopy	C	H	A
Ambulatory and Hospital Bacteriology	C	H	A
Anaerobic Blood Culture	C	H	A
Anaerobic Research	C	H	A
<i>Bordetella sp.</i> - Culture	C	H	A
<i>Clostridium difficile</i> - Antigen	C	H	A
<i>Clostridium difficile</i> - Toxin A and B	C	H	A
Colon Count - Urine	C	H	A
Coproculture	C	H	A
Coronavirus (SARS-CoV2) - Antigen	C	H	A
<i>Cryptococcus neoformans</i> - Antigen	C	H	A
Culture of Epidemiological Surveillance (CES)	C	H	A
Diphtheria Bacillus Research - Microscopy	C	H	A
Dosage of Beta D-glucan	C	H	A
Dosage of Galactomannan	C	H	A
<i>Giardia lamblia</i> - Antigen	C	H	A
Gram Bacterioscopy	C	H	A
<i>Helicobacter pylori</i> - Antigen	C	H	A
<i>Helicobacter pylori</i> - Ureasa	C	H	A
Histoplasmosis - Antigen	C	H	A
<i>Legionella</i> - Antigen	C	H	A
<i>Legionella pneumophila</i> - Culture	C	H	A
Leprosy	C	H	A
Meningitis Panel	C	H	A
Mycobacteriology	C	H	A
Mycology	C	H	A
<i>Neisseria gonorrhoeae</i> - Culture	C	H	A
Norovirus - Antigen	C	H	A
Parasitology	C	H	A
<i>Pneumocystis jirovecii</i> - Microscopy	C	H	A
Rotavirus - Antigen	C	H	A

**Neonatal Diagnosis**

Immunoglobulin M - Umbilical Cord	C	H	A
Neonatal Bilirubin	C	H	A
Neonatal Screening	C	H	A
Neonatal Screening - Infectious Diseases	C	H	A
Neonatal Therapy	C	H	A

**Occupational Toxicology/Abuse Drugs**

Drugs of Abuse - Hair	C	H	A
Drugs of Abuse - Saliva	C	H	A
Drugs of Abuse - Urine by Automation	C	H	A
Ethanol Metabolite - Urine and Hair	C	H	A
Organochlorines and Organophosphates	C	H	A
Toxicology - Volatile (Serum, Urine and Total Blood)	C	H	A
Toxicology (Serum, Urine and Total Blood)	C	H	A

**Pathological Anatomy/Cytopathology**

Dermatopathology	C	H	A
General Pathological Anatomy	C	H	A
Gynecological Cytopathology	C	H	A
Immunohistochemistry: Breast	C	H	A
Non-Gynecological Cytopathology	C	H	A

C Clinical Analysis    H Hemotherapy    A Pathological Anatomy and Cytopathology



See more program details in our Online Catalog

**Point of Care Testing (PoCT)**

Anti-HBs	C	H	A
Anti-HCV	C	H	A
Anti-HIV	C	H	A
Bioquímica	C	H	A
BNP	C	H	A
Cardiac C-reactive Protein	C	H	A
Cardiac Panel	C	H	A
Chagas	C	H	A
Chlamydia: Antigen	C	H	A
Coagulation	C	H	A
Coronavirus (SARS-CoV2): Antigen	C	H	A
Coronavirus Immunology (SARS-CoV2)	C	H	A
Coronavirus Neutralizing Antibodies Research (SARS-CoV2)	C	H	A
D-dimer	C	H	A
Drugs of Abuse	C	H	A
Ethanol Metabolite - Urine	C	H	A
Filariasis	C	H	A
Glucose	C	H	A
HBsAg	C	H	A
HCG (Serum and Urine)	C	H	A
Hemoglobin - HemoCue (Donor Selection)	C	H	A
Hormones	C	H	A
Immunology Yellow Fever	C	H	A
Influenza A and B	C	H	A
Ketone	C	H	A
Lactoferrin	C	H	A
Legionella pneumophila: Antigen	C	H	A
M. tuberculosis complex: Antigen	C	H	A
Metabolism Markers Bone/Growth: Serum	C	H	A
Premature Membrane Rupture	C	H	A
Respiratory Syncytial Virus (RSV)	C	H	A
Streptococcus Group A: Antigen	C	H	A
Syphilis	C	H	A
Troponin I	C	H	A
Troponin T	C	H	A
Tumor Markers	C	H	A
Urine Biochemistry	C	H	A

**Point of Care Testing (PoCT) Molecular**

Coronavirus (SARS-CoV2)	C	H	A
Influenza A and B	C	H	A
Respiratory Syncytial Virus (RSV)	C	H	A

**Reproduction Medicine**

Biochemistry of Sperm	C	H	A
Sperm Cell Count by Automation	C	H	A
Sperm Cell Count on camera	C	H	A
Sperm Morphology	C	H	A
Sperm Motility	C	H	A
Sperm Vitality	C	H	A

**Therapeutic Drugs Monitoring**

Immunosuppressive Drugs	C	H	A
Therapeutic Drugs	C	H	A

**Urinalysis**

Absorption Test of D-xylose	C	H	A
Amino Acids - Urine	C	H	A
Cytomegalic Inclusion Cells	C	H	A
Eosinophils Research: Urine	C	H	A
Indican Test (Dysbiosis Test)	C	H	A
Kidney Stone	C	H	A
Mucopolysaccharides	C	H	A
Organic Acids	C	H	A
Porphobilinogen (PBG)	C	H	A
Porphyrins	C	H	A
Protein Electrophoresis - Urine	C	H	A
Research on Erythrocytic Dysmorphism	C	H	A
Research on Reducing Substances	C	H	A
Risk Kidney Stones	C	H	A
Urinalysis - Automated Sedimentoscopy	C	H	A
Urinalysis - Biochemistry	C	H	A
Urinalysis - Sedimentoscopy and Counting by Field and Chamber	C	H	A
Urinalysis - AUS	C	H	A
Urinalysis Sedimentation - Identification	C	H	A
Urinary Sugars (Carbohydrates)	C	H	A

**Processes Qualification <sup>i</sup>**

Microbiological Analysis of Water	C	H	A
Physical and Chemical Analysis of Water	C	H	A
Spectrophotometer	C	H	A

**C** Clinical Analysis    **H** Hemotherapy    **A** Pathological Anatomy and Cytopathology

**i** Refer to more programs on page 19



**C** Clinical Analyzes    **H** Hemotherapy    **A** Pathological Anatomy and Cytopathology

See more program details in our Online Catalog

**Cardiac Markers**

Cardiac Markers ..... i

**Clinical Chemistry**

Biochemistry ..... i  
 Hormones ..... i  
 Symmetric Dimethylarginine ..... i

**Coagulation/Haemostasis**

Coagulation ..... i  
 D-dimer ..... i

**Coprology/Occult Blood**

Fecal Occult Blood ..... i

**Diabetes/Hemoglobins**

Glycated Hemoglobin ..... i

**Gasometry**

Blood Gas: Biochemistry ..... i

**Genetics and Molecular Biology**

*Bordetella* ..... i  
*Campylobacter* ..... i  
*Clostridium* ..... i  
 Coronavirus (SARS-CoV2) ..... i  
*Cryptococcus* ..... i  
*Giardia spp.* ..... i  
*Leishmania* ..... i  
 Leptospirosis ..... i  
 Monkeypox (MPX) ..... i  
*Mycobacterium tuberculosis* ..... i  
*Salmonella* ..... i  
*Toxoplasma gondii* ..... i

**Hematology/Hematocopy**

Hematology ..... i  
 Hematocopy and Hemoparasitology ..... i  
 Reticulocytes ..... i

**Immunoassays/Endocrinology**

Infectious Anemia ..... i

**Immunoematology/Transfusion Medicine**

Immunoematology ..... i

**Immunology/Proteins**

Distemper ..... i  
 Ehrlichiosis ..... i  
 Leucosis ..... i  
 Parvovirus ..... i  
 Serum Amyloid A (SAA) ..... i  
 Visceral Leishmaniasis ..... i

**Infectious Diseases/Serology**

Brucellosis ..... i  
 Glanders ..... i  
 Scabies ..... i

**Microbiology**

Adenovirus - Antigen ..... i  
 Anaerobic Research ..... i  
 Bacteriology - Culture ..... i  
 Bacterioscopy Gram ..... i  
 Giardia - Antigen ..... i  
 Hemoculture ..... i  
 Mycology ..... i  
 Parasitology ..... i  
 Rotavirus - Antigen ..... i

**Pathological Anatomy/Cytopathology**

Cytology ..... i  
 General Pathological Anatomy ..... i

**Point of Care Testing (PoCT)**

Biochemistry ..... i  
 Coagulation ..... i  
 Glucose ..... i

**Urinalysis**

Urinalysis - Biochemistry ..... i  
 Urinalysis - Sedimentation ..... i  
 Urinalysis - AUS ..... i

*i* Specific programs by animal matrix, consult available species.



See more program details in our Online Catalog



**Cosmetics**

Cosmetics ..... F M

**Foods and Beverages**

Alcoholic Beverages - Wine ..... F M  
 Coffee, Tea and Infusion Products ..... F M  
 Coronavirus Research (SARS-CoV2) ..... F M  
 Fish ..... F M  
 Flour and Similar ..... F M  
 Foods ..... F M  
 Fruit Juice ..... F M  
 Honey ..... F M  
 Meat Products ..... F M  
 Milk and Derivatives ..... F M  
 Non-Alcoholic Beverages ..... F M  
 Oils and Fats ..... F M  
 Olive Oil ..... F M  
 Salt ..... F M  
 Sugar Polarization ..... F M

**Fuels**

Ethanol ..... F M

**Pharmaceutical Products**

Medicines ..... F M  
 Oral Solution ..... F M  
 Sterile Products ..... F M  
 Tablets ..... F M  
 Tests Limits ..... F M

**Physico-Chemical Properties**

Acid/Base Titration ..... F M  
 Conductivity ..... F M  
 Density ..... F M  
 Dynamic Viscosity ..... F M  
 Humidity ..... F M  
 Melting Point ..... F M  
 pH ..... F M  
 Refractometry ..... F M

**Sanitation**

Sanitary Water ..... F M

**Water and Environment**

Dialysis Water ..... F M  
 Effluents ..... F M  
 Mineral and Natural Water ..... F M  
 Pool Water ..... F M  
 Purified Water ..... F M  
 Research and Counting on Surfaces ..... F M  
 Sea Water ..... F M  
 Water for Human Consumption ..... F M  
 Water for Injection ..... F M

F Physical Chemist

M Microbiology



See more program details in our Online Catalog

## Explore data, gain insights, and increase your organization’s efficiency

Metricare is a data platform that eases day-to-day decision-making in health and wellness companies, strengthening the market.

### How can Metricare boost your organization?

- ✓ Stimulates continuous improvement;
- ✓ Provides cost and waste reduction;
- ✓ Allows tracking of goals;
- ✓ Inserts more agility and assertiveness in decisions;
- ✓ Performs market comparative analysis (strategic benchmarking);
- ✓ Compares internal units/networks (support or brands);
- ✓ Ensures compliance with accreditations and regulations.



### Operation



## Send data in a simple, reliable and agile way!

### Partner companies

To reduce the complexity of data collection and the possibility of errors in information provision, several technology companies are partners with Metricare.

They integrate their systems with the platform, promoting more reliability and standardization in the reported data.

Meet the partner companies



Consult them to know the integrated systems.



Learn more about Metricare

## Data and information that guide strategic and operational decisions for competitive and collective intelligence

### Partner Institutions

As new scientific and technological knowledge advances, the use of indicators becomes essential to identify, monitor, assess, and support decision-making in healthcare. Metricare points the way and helps institutions achieve excellence in decision-making.

Meet the partner institutions



### Data analyzed with impartiality and security

Metricare operates as a third-party company, providing impartiality and confidentiality to the reported data. It follows a code of ethical conduct & compliance integrated with national and international laws for the general protection of data.

### Laboratory module

The laboratory module offers a wide and comprehensive scope of indicators. The laboratory starts using the most critical processes and, as it becomes familiar with the strategy, gradually expands to other areas.



This module is endorsed by SBPC/ML – Brazilian Society of Clinical Pathology/Laboratory Medicine, a Controllab partner since 1977.

The indicators are internationally harmonized and aligned with the IFCC - International Federation of Clinical Chemistry and Laboratory Medicine.

The practice of indicators in laboratory processes is widely consolidated. It promotes service efficiency, customer satisfaction and patient safety.



Learn more about Metricare

## Discover the available indicators:

### STRATEGIC ORGANIZATION

New customers

### GOVERNANCE AND SUSTAINABILITY

### PATIENT SAFETY

Average time for reporting critical outcomes: hospitalized/non-hospitalized patients

Communication of late critical results: hospitalized/non-hospitalized patients

Errors in patient identification (Clinical Analysis)

Failure to communicate critical results: hospitalized/non-hospitalized patients

Samples with error in patient identification

Samples with less than 2 patient-related identifiers

### FINANCIAL MANAGEMENT

Average ticket per patient **E**

Disallowances general and by operator

Expenditure with physical area and resources/secondary expenditure/equipment/materials/staff/services/transport

Support laboratory: logistics costs

Tests requested: courtesy/operator/private/public network

### OPERATION MANAGEMENT

#### PRODUCTION

Audited public: outpatient/hospitalized/non-hospitalized patients

Citrate tubes collected by patient

Collection system: own, third-party and franchise patients

EDTA tubes collected per patient

Exams per citrate tube

Exams per clot activator tube

Exams per EDTA tube

Exams per lithium heparin tube

Exams per serum tube with gel/without gel

Examinations per patient: health insurance/courtesy/private/public

Exams per sodium fluoride tube

Lithium heparin tubes collected by patient

Outsourcing

Serum tubes with gel collected by patient

Sodium fluoride tubes collected per patient

Technical production: by equipment and by exam

Total of clot activator tubes generated with collection in the period

### RESOURCES MANAGEMENT

#### PEOPLE

Absenteeism

Accident at work: general

Accidents with sharps

Hours worked per employee

Overtime hours

Personal productivity: general/billing/reception/receptionist

Personal productivity: own and franchised collector

Personal productivity: technique **E**

Rotativity: general/reception

Training events

Training: enforcement of planned training load

Training: hours of training

Training: internal

#### EQUIPMENT

Corrective maintenance

Mean time between failures: equipment (MTBF)

Mean time between failures: biochemistry equipment (MTBF)

#### TECHNOLOGY

Self-check results efficiency

LIS Efficiency: episodes of system crash

LIS Efficiency: times of system crash

### STAKEHOLDER MANAGEMENT

#### INDIVIDUAL CUSTOMERS

Customer satisfaction: individual

Net Promoter Score (NPS)

Participation in research of Net Promoter Score (NPS)

Patient satisfaction with blood collection (NPS blood collection)

Received customer manifestations

Responded customer manifestations

#### PHYSICIANS

Physician satisfaction

Physician satisfaction: hospital care

#### CORPORATE CUSTOMERS

NPS of supported laboratory

Support laboratory: complaints from supported laboratories

**E** Essential Indicator



Learn more about Metricare

PROCESSES AND OUTCOMES
<b>PRE-ANALYTICAL</b>
Blood collection failure
Coagulation: coagulated samples
Collection error: incorrect proportion of sample/anticoagulant volume
Collection error: incorrect sample/incorrect container/insufficient volume
Collection in inappropriate time
Contamination: samples of microbiology/hemoculture samples/urine culture samples
Exams not registered: hospitalized/non-hospitalized
Hemolysis: samples in general and biochemistry area
Inappropriate medical requests related to informed clinical issues: hospitalized/non-hospitalized
Incorrect exams name: hospitalized/non-hospitalized
Medical requests without clinical questions: non-hospitalized
Non-intelligible medical requests: hospitalized/non-hospitalized
Storage error: incorrect storage before scanning
TAT preanalytical by exams
Tests incorrectly added and not included in the medical requisition: hospitalized/non-hospitalized
Transport error: samples damaged during transport
Transport error: samples not received
Transport error: samples transported at incorrect temperature
Transport error: samples with excessive transport time
Unidentified samples
<b>ANALYTICAL</b>
Analytical runs with coefficient of variation (CV) above the group (by exam)
Analytical runs with standard deviation (SD) above the group (by exam)
Coefficient of variation (CV) per exam
Coefficient of variation (CV) per exam/equipment
Coefficient of variation (CV) per reagent/batch
Errors in manual transcription of results
Internal Control (IC): tests with out-of-specification results
Proficiency Testing (PT): inadequate performance related to previously treated cause
Proficiency Testing (PT): inappropriate performance <b>E</b>
Standard deviation (SD) per exam
Standard deviation (SD) per exam/equipment
Standard deviation (SD) per reagent/ batch
TAT analytical phase by exams

PROCESSES AND OUTCOMES
<b>POST-ANALYTICAL</b>
Index of interpretive comments in report
Report delivery: collected in the laboratory
Report delivery: at home
Report delivery: by phone or fax/web/email
TAT 90 percentile: INR/potassium/troponin/WBC
TAT global by exam
TAT post-analytical phase by exams
Unpublished reports
<b>OUTCOMES</b>
Delayed outcomes: hospitalized/non-hospitalized patients <b>E</b>
Delayed outcomes: support laboratory
Diverse recollection
Diverse recollection: hospitalized/non-hospitalized patients
General recollection <b>E</b>
General recollection: hospitalized/non-hospitalized patients
General recollection: support laboratory
Incorrect reports (Clinical Analysis) <b>E</b>
Incorrect reports: support laboratory
Incorrect results released
Recollection by accident
Recollection by accident: hospitalized/non-hospitalized patients
Recollection for analytical reasons: support laboratory
Recollection for confirmation
Recollection for confirmation: hospitalized/non-hospitalized patients
Recollection for inappropriate material
Recollection for inappropriate material: hospitalized/non-hospitalized patients
Recollection for pre-analytical reasons: support laboratory

**E** Essential Indicator



Learn more about Metricare



## Enhance the quality and efficiency of your laboratory's analytical processes!

Analytical Quality Management promotes more reliable results, cost reduction, and greater compliance with quality standards and regulations.



Choose correctly, in less **than 1 minute**, the multiple rules (Westgard Rules) according to your analytical performance and **avoid false rejections**.



Single platform that **integrates data from the Proficiency Test and Internal Control**, eliminating the need for multiple spreadsheets and software. **Manage everything in one place**, from any location.

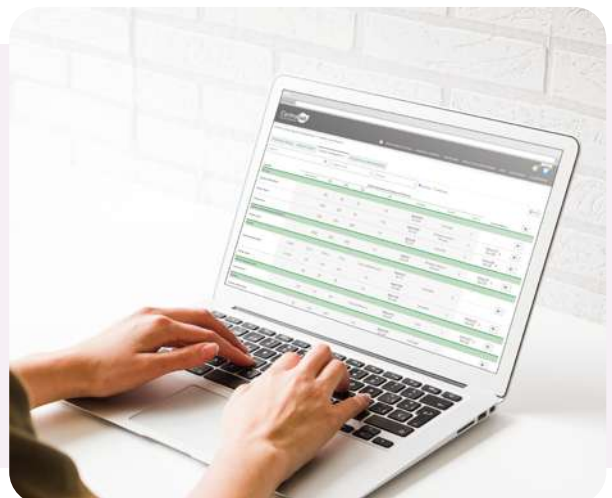


The system **automatically analyzes your exam performance** according to your specifications. Focus only on what you really need to analyze.



Show compliance in **accreditation processes and regulations with objective evidence** on planning, monitoring and evaluation of the analytical routine.

**Controllab Client:**  
try it for free and prove  
the efficiency in your  
management!



## Insert more accuracy and traceability to the analytical process

Attentive to the needs of the laboratory public, Controllab provides an extensive scope of Certified Reference Materials (CRM). These materials are an important tool in the quality control of analytical routines.



### CHEMICAL PROPERTY

#### Potential Redox

200.0 mV  
229.0 mV  
400.0 mV  
476.0 mV

#### Electrolytic Conductivity Solution

1.50  $\mu\text{S}/\text{cm}$   
5.00  $\mu\text{S}/\text{cm}$   
25.00  $\mu\text{S}/\text{cm}$   
50.00  $\mu\text{S}/\text{cm}$   
100.0  $\mu\text{S}/\text{cm}$   
500.0  $\mu\text{S}/\text{cm}$   
1400  $\mu\text{S}/\text{cm}$   
5000  $\mu\text{S}/\text{cm}$   
12800  $\mu\text{S}/\text{cm}$

#### Buffer Solution for pH

pH 1.7  
pH 4.0  
pH 6.9  
pH 9.2  
pH 10.0

### PHYSICAL PROPERTY

#### Color

500 mg/L Pt-Co

#### Degree Brix at 20 °C and Refractive Index at 20 °C

0.0 g/100 g and 1.3330  
12.0 g/100 g and 1.3500  
35.0 g/100 g and 1.3900  
49.0 g/100 g and 1.4200  
60.0 g/100 g and 1.4400

#### Fusion Point

47 °C to 49 °C  
69 °C to 71 °C  
113 °C to 115 °C  
121 °C to 123 °C  
158 °C to 161 °C  
164 °C to 166 °C

#### Turbidity

4000 NTU

### CLINICAL AND BIOLOGICAL PROPERTIES

CRM Qualitative Reference Cultures.  
See Reference Strains, pages 12 and 13.



### ENVIRONMENTAL

**Ammonia Nitrogen** 1000 mg/L and 1000mg/kg  
**Cyanide** 1000 mg/L  
**Chloride** 1000 mg/L and 1000 mg/kg  
**Dissolved Oxygen** 0 mg/L  
**Fluoride** 1000 mg/L and 1000 mg/kg  
**Nitrate as Nitrogen** 1000 mg/L and 1000mg/kg  
**Nitrite as Nitrogen** 1000 mg/L and 1000mg/kg  
**Orthophosphate** 1000 mg/L and 1000mg/kg  
**Residual Chlorine** 1000 mg/L  
**Salinity** 35 PSU  
**Sulfate** 1000 mg/L and 1000 mg/kg  
**Total Dissolved Solids** 1000 mg/L



Electrolytic Conductivity Solution 1.50  $\mu\text{S}/\text{cm}$  and  
Dissolved Oxygen.



Learn more about Certified Reference Materials

## Partnerships that promote product quality in the clinical analysis segment

Controllab is committed to the quality of exam results. Our solutions include programs to improve the results of analyses establishments and *in vitro* diagnostic product companies.



### Batch-to-Batch Certificate

The program verifies if the results obtained between batches **are consistent and maintain analytical performance**.

Manufacturers that submit their devices to the program meet the needs of laboratories, pharmacies, clinics, and medical offices, helping them reduce costs and efforts in monitoring the replacement of new reagents in the analytical routine, promoting:

Participating manufacturers demonstrate quality to the market and help clinical analysis establishments demonstrate compliance with regulatory and legal guidelines.



cost reduction.



improved patient safety.



confidence in the product.



### Collaborating Supplier

The program ensures reference values for the devices.

Through an ongoing partnership, the supplier makes its systems available for Controllab to carry out a sequence of analyses. This allows **reference values to be included in the leaflet of Internal Control programs** and promotes evaluation in the Proficiency Testing (External Control).



### Customized Internal Control

Controllab provides customized internal control development for analytical systems, ensuring reliability and accuracy in test results. With extensive technology, the company helps **suppliers overcome market entry barriers** by providing specific control material for their systems.



### Performance Dashboard

The panel is used to test and validate new testing methods and equipment. It **demonstrates how reliable these systems are**. It is composed of samples with different concentrations, including positive, negative and heterologous items from different donors in regions of Brazil.



### Linearity Check and Calibration

A set of samples with concentrations of serial dilutions to **evaluate whether the analytical system can reproduce results linearly** according to its specification.

**By participating in these initiatives, companies provide more security to analytical routines and demonstrate commitment to the quality of their products.**

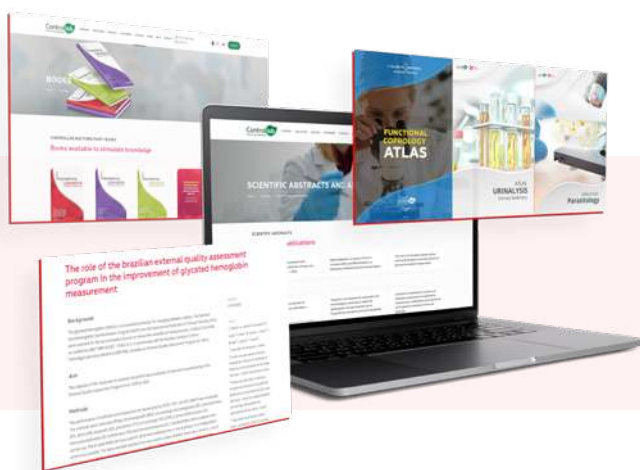
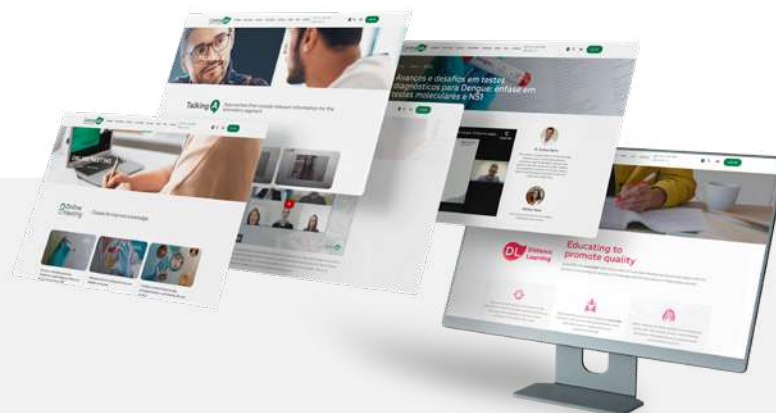


Learn more about *In Vitro* Diagnostic

## Educating to promote quality

The Controllab team and its advisors develop educational initiatives with the purpose of promoting knowledge recycling and improving analytical activities.

On the website, various materials are freely available to the analytical community, including lectures and interviews with experts in different fields.







Books, atlases, summaries, scientific articles, and other content stand out, intended to leverage professional qualifications.

In the books section, you will find the collection **Management of the Analytical Phase of the Laboratory**, a fundamental ally for the quality and excellence of analytical routines.



Learn more about Distance Learning



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