

Quality Control for Covid-19

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In order to contribute to the validation of these tests, whose reliability has been the subject of discussions, quality control is a fundamental ally.

In the current pandemic scenario, the contribution and credibility of laboratory tests for Covid-19 has been widely reported. To increase the reliability of these reports, Controllab has just launched the Proficiency Test for SARS-CoV2 (Covid-19).

The importance of laboratory tests for health care is widely known. Therefore, analytical systems support the confidence that clinical staff must have in the results received.

The Proficiency Test (also known as External Control) monitors process trends (inaccuracy), commonly related to linearity, specificity, sensitivity, interference and calibration characteristics. These variables are inherent to the analysis process and keeping them under control is essential so as not to compromise the quality of the laboratory reports.

Having quality control to guarantee the reliability of laboratory tests, and of national origin, to avoid the logistical impacts caused by the pandemic, collaborates to strengthen the Brazilian health system.

The Proficiency Test follows the criteria of ABNT NBR ISO/IEC 17043 and Controllab is accredited by the General Accreditation Coordination (Cgcre / Inmetro), under the number PEP 0003, according to the scope published in http://www.inmetro.gov.br/credenciamento/acre_prod_ep.asp.

Laboratory quality control programs of Controllab help the laboratory obtain recognition from physicians and patients regarding the quality of the reports issued.

Controls available for SARS-CoV2 (Covid-19):

The first round of the Proficiency Test (EP) for SARS-CoV2 of Controllab was held in May and helped laboratories evaluate the analytical performance of their systems. The behavior obtained in the interlaboratory comparison was analyzed by a group of specialists in the diagnostic sector and made available in a report. The content is enriched with information to assist manufacturers of diagnostic kits and, especially, laboratories, demonstrating the relevance of quality control in periods of uncertainty and complexity. Access https://controllab.com/destaques/2020/arquivos/Relatorio_EP_SARSCOV2.pdf

In addition to external controls, internal controls are available in customized presentations by methodology. The materials are lyophilized - providing better stability during the transportation - and distributed in multiple compositions to meet the most varied routines. These controls are available for immediate dispatch, at the request of the laboratory or scheduled monthly.

Molecular Testing RT-PCR



- 1.0mL lyophilized cell suspension or clinical material (with inactive virus).
- Up to 5 years of validity from 2 to 8°C.
- Available tests:** detection of SARS-CoV2 by real-time RT-PCR techniques.

Proficiency Test ⓘ
Coronavirus Molecular Biology Proficiency Test (SARS-CoV2)

Internal Control ⓘ
Coronavirus Molecular Biology Internal Control Kit

Serological Testing



- Lyophilized human serum 100 µL.
- Up to 2 years of validity at <0 °C.
- Available assays:** Search for antibodies (IgG, IgM and IgA) by ELISA, Immunofluorescence and Chemiluminescence.

Proficiency Test ⓘ
Coronavirus Automation Immunology Proficiency Test (SARS-CoV2)

Internal Control ⓘ
Immunology Coronavirus (SARS-CoV2) Internal Control kit (2 bottles)

Internal Control ⓘ
Immunology Coronavirus (SARS-CoV2) Internal Control kit (10 bottles)

Internal Control ⓘ
Immunology Coronavirus (SARS-CoV2) Internal Control kit (20 bottles)

Rapid Tests



- Cell suspension or clinical material (with inactive virus) lyophilized of 500µL.
- Up to 5 years of validity from 2 to 8°C.
- Available assays:** Antigen screening for SARS-CoV2 in TLR systems (Rapid Diagnostic Tests).

Proficiency Test ⓘ
Proficiency Test on Rapid Diagnostic Tests Coronavirus (SARS-CoV2): antigen

Internal Control ⓘ
Rapid Diagnostic Tests Coronavirus: antigen Internal Control kit



- Lyophilized human serum 100 uL.
- Up to 2 years of validity at <0 °C.
- Available assays:** Antigen screening for SARS-CoV2 in TLR systems (Rapid Diagnostic Tests).

Proficiency Test ⓘ
Proficiency Test in Rapid Diagnostic Tests Coronavirus Immunology (SARS-CoV2)

Internal Control ⓘ
Rapid Diagnostic Tests Immuno Coronavirus (SARS-CoV2) Internal Control kit (2 bottles)

Internal Control ⓘ
Rapid Diagnostic Tests Immuno Coronavirus (SARS-CoV2) Internal Control kit (10 bottles)

Internal Control ⓘ
Rapid Diagnostic Tests Immuno Coronavirus (SARS-CoV2) Internal Control kit (20 bottles)