

Efficient and reliable mass testing of recent COVID-19 infection



Actim ELISA SARS-CoV-2 IgG

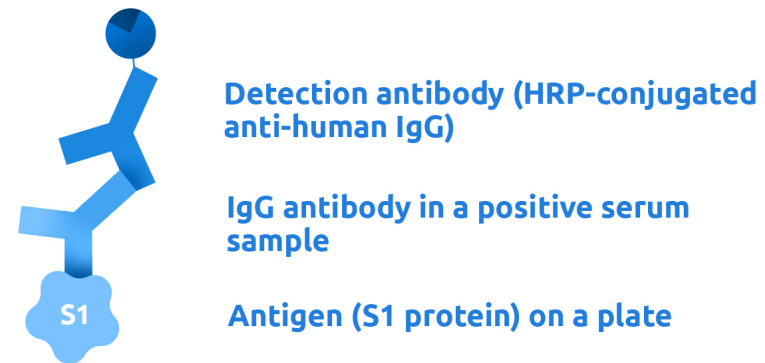
- Actim ELISA SARS-CoV-2 IgG is a serological antibody detection test
- The test is intended for professional use to help detect **recent** COVID-19 infection
- The quantitative test detects **IgG** specific to SARS-CoV-2
- The test is developed and produced in Finland

Actim[®] ELISA SARS-CoV-2 IgG

- **40** replicates or **80** single samples can be run in one plate.
- Sample type is **serum** from venous blood.
- Test results are available in **less than two hours**.
- Test kit contains **all reagents** needed for testing

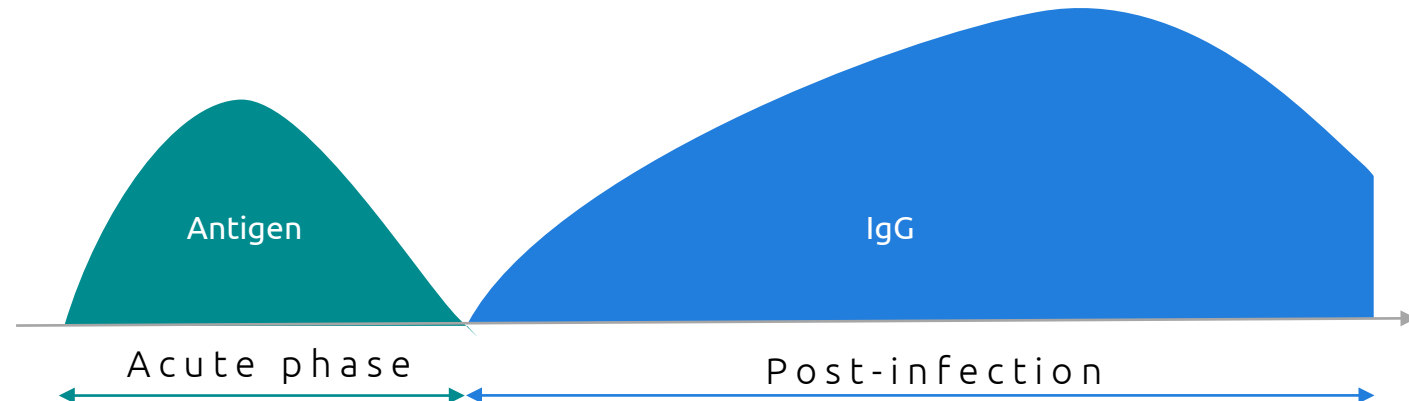
The detection of antibodies against SARS-CoV-2 virus

- Actim ELISA SARS-CoV-2 IgG is an enzyme-linked immunosorbent assay (ELISA)
- The test measures the specific IgG antibodies against the spike glycoprotein S1 (S1 protein) found on the surface of the SARS-CoV-2 virus
- The antibodies in a positive serum sample bind with high specificity to the test plate coated with SARS-CoV-2 S1 proteins



IgG is the most useful marker to detect recent COVID-19 infection

- As a second line of antibody defense, levels of IgG **rise quickly** (1 week) and **stays high** for several months after the onset of infection
- First line of antibody defense starts rising a few days earlier but drops in one month
- **Quantitative** detection of IgG provides comprehensive information on individual's immune response



First-class performance

Excellent performance of Actim ELISA SARS-CoV-2 IgG compared to RT-PCR in analysis of total 670 serum samples (≥ 7 days after PRC sampling, n=639).

Actim ELISA SARS-COV-2 IgG	PCR pos	PCR neg
Pos	73	8
Neg	3	555

Excellent performance of Actim ELISA-SARS-CoV-2 IgG	
Sensitivity	96%
Specificity	98%
PPV	87%
NPV	99%
Accuracy	98%

Best-in-class sensitivity

Actim ELISA SARS-CoV-2 IgG is one of the most reliable tests in the market (n=50 positive and 50 negative).

Method	Sensitivity
Actim ELISA SARS-CoV-2 IgG S1	96%
ELISA IgG, Competitor A	70%
ELISA IgG, Competitor B	72%
ELISA IgG, Competitor C	80%

Highly specific to SARS-CoVs

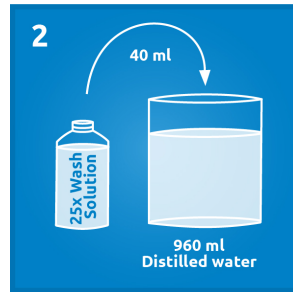
Actim ELISA SARS-CoV-2 IgG test does not cross-react with IgG antibodies against 16 other viruses.

The evaluation was made with 90 human serum samples collected before the COVID-19 pandemic		
Adenovirus	Mumps virus (parotitis)	Varicella zoster virus
Cytomegalovirus (CMV)	Mycoplasma pneumoniae	Epstein-Barr virus
Herpes simplex viruses 1+2	Parainfluenza viruses 1/2/3	Enteroviruses
Influenza virus Type A	Parvovirus B19	Measles virus
Influenza virus Type B	Respiratory syncytial virus	Hantavirus Pool 1 "Eurasia"
		Haemophilus influenzae B

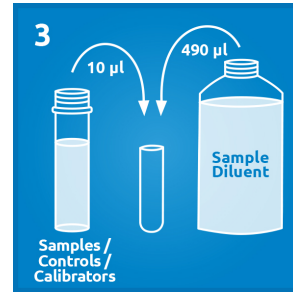
Quantitative results in less than 2 hours



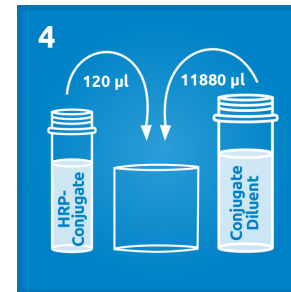
Mix all reagents gently



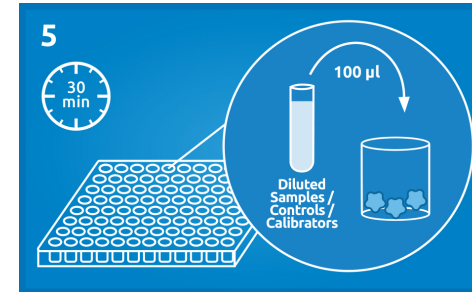
Dilute Wash Solution to a final volume



Dilute Samples, Controls, and Calibrators



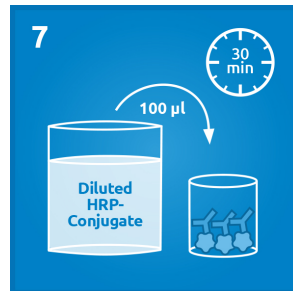
Dilute HRP-Conjugate in Conjugate Diluent



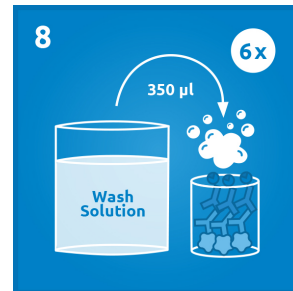
Add diluted Samples/ Controls/ Calibrators to appropriate wells and incubate the plate



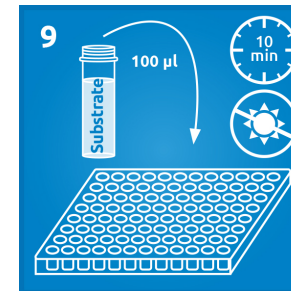
Wash the plate twice



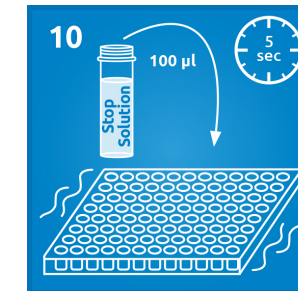
Add diluted HRP-Conjugate to each well and incubate the plate



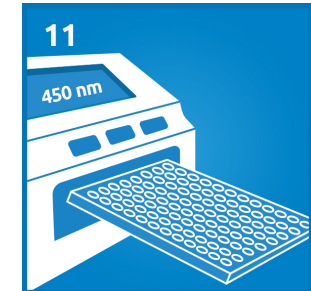
Wash the plate six times



Add Substrate to each well and incubate the plate



Add Stop Solution to each well



Read the plate at 450 nm

The background of the slide features a photograph of a female doctor with dark hair, wearing blue scrubs and a stethoscope, smiling and reaching out her hand towards a young child with curly brown hair wearing a yellow shirt. A large teal rectangle is superimposed over the center of the image, containing the text "Contact us!" and the contact information.

Contact us!

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