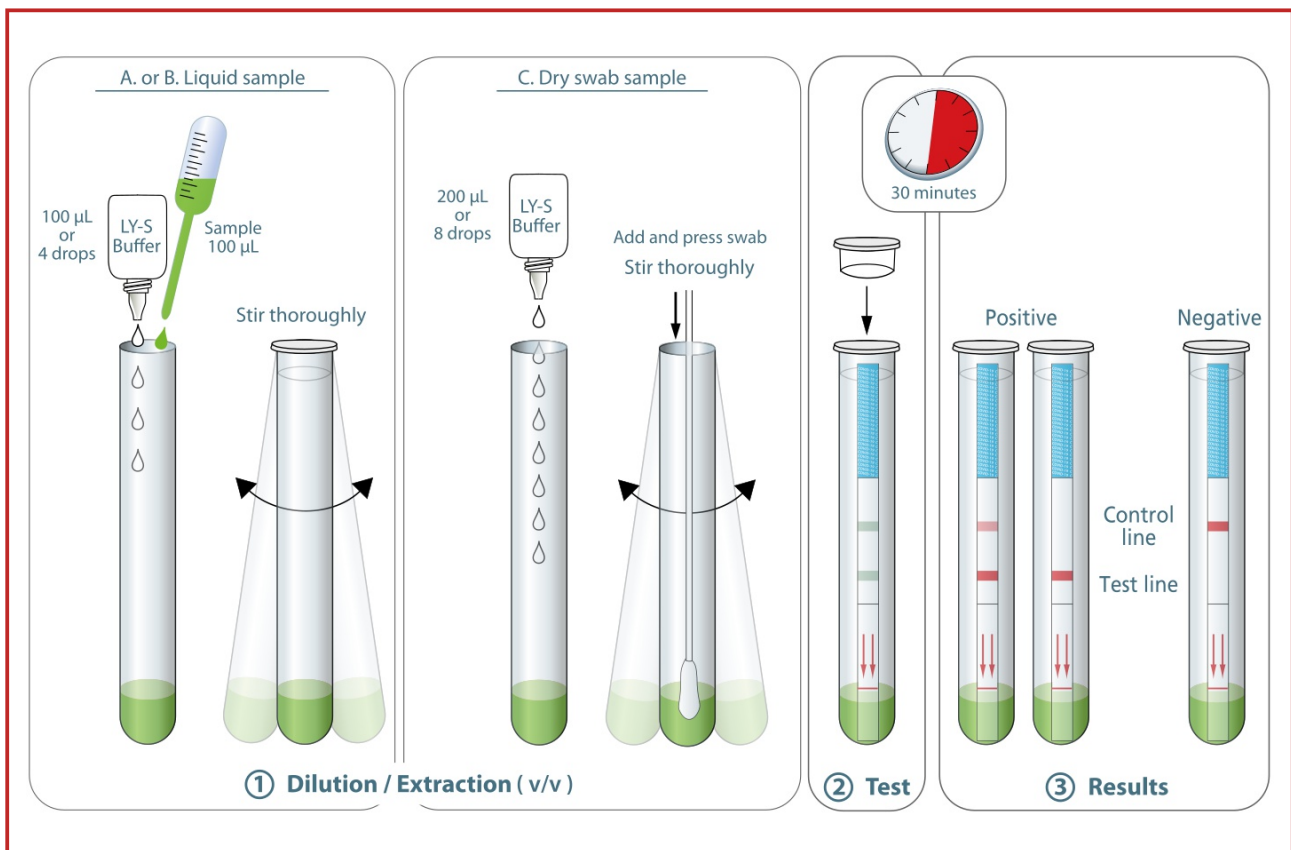


# COVID-19 Ag Respi-Strip

## Detection test of SARS-CoV-2

1. Liquid sample : dilute 1:2 with the LY-S buffer  
 Flocked swab : dip the swab in 200µl of LY-S buffer  
 The total volume must be 200µl !
2. Dip the strip (the liquid must not exceed the red line under the red arrows)  
 Leave to react for 30 minutes
3. Read the final result



### COVID-19 Respi-Strip Results

Any signal visible at 30 min on the test line, even a weak one, must be interpreted as positive

# COVID-19 Ag Respi-Strip

## Performances:

The kit was validated in comparison with RT-PCR on a total of 231 nasopharyngeal swab specimens in two Reference Hospitals: University Hospital Laboratory of Brussels (Evaluation 1) and the University Hospital Laboratory of Liège (Evaluation 2).

The following results were obtained:

<b>Evaluation 1 (n=99)</b>	(95% confidence interval)	
<b>Sensitivity</b>	60%	(40.7 to 76,8%)
<b>Sensitivity threshold</b>	85.7% on sampling with CT under 25 (62.6 to 96.2%)	
<b>Specificity</b>	100%	(93.4 to 100%)
<b>Positive predictive value</b>	100%	(78.1 to 100%)
<b>Negative predictive value</b>	85.2%	(75.2 to 91.8%)
<b>Agreement</b>	87.9%	(87/99)

<b>Evaluation 2 (n=132)</b>	(95% confidence interval)	
<b>Sensitivity</b>	60.3%	(48.1 to 71.3%)
<b>Sensitivity threshold</b>	76.7% on sampling with CT under 25 (61 to 87.7%)	
<b>Specificity</b>	98.3%	(89.7 to 99.9%)
<b>Positive predictive value</b>	97.8%	(86.8 to 99.9%)
<b>Negative predictive value</b>	66.7%	(55.7 to 76.2%)
<b>Agreement</b>	77.3%	(102/132)

## Detectability:

- Viral detectability :  $5 \times 10^3$  pfu/mL
- Recombinant protein detectability : 0,25 ng/mL

## Reactivity and cross reactivity:

<b>Viruses</b>	<b>Result</b>
Influenza A	neg
Influenza B	neg
Respiratory Syncytial Virus (RSV)	neg
Respiratory Adenovirus	neg
Parainfluenza	neg
Rhinovirus	neg
Metapneumovirus	neg
Enterovirus	neg
Coronavirus HKU1	neg
Coronavirus OC43	neg
Coronavirus 229E	neg
Coronavirus NL63	neg
Coronavirus SARS-CoV	pos
Coronavirus SARS-CoV-2	pos

<b>Bacteria</b>	<b>Result</b>
<i>Staphylococcus aureus</i>	neg*
<i>Legionella pneumophila</i>	neg
<i>Nocardia asteroides</i>	neg
<i>Streptococcus pneumoniae</i>	neg
<i>Moraxella catarrhalis</i>	neg
<i>Streptococcus pyogenes</i>	neg
<i>Haemophilus influenzae</i>	neg
<i>Pseudomonas aeruginosa</i>	neg
<i>Acinetobacter baumannii</i>	neg
<i>Klebsiella pneumoniae</i>	neg
<i>Mycoplasma pneumoniae</i>	neg
<b>Fungus</b>	<b>Result</b>
<i>Aspergillus niger</i>	neg

\* Staphylococcus aureus was found positive at high bacteria concentrations (10e9 cfu/mL). No false-positive results were obtained when testing naso-pharyngeal sample from known S. aureus infected patients.

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