A look at Singapore's arsenal of Covid-19 tests

Testing for the coronavirus is an important part of the nation's strategy to gradually

reopen its economy. Timothy Goh looks at three of the tests used here, and how they measure up.			
	Polymerase chain reaction tests	Antigen rapid tests	Breath tests
How people are tested	A swab is either inserted all the way to the back of	A swab is inserted around 2.5cm up each	A person breathes into a tube that is connected to

each nostril, or midway up a specialised machine nostril and twirled

Proteins on the surface of

the virus called antigens

Around 15 to 30 minutes

Unknown; still undergoing

Sensitivity rate: 82%

Specificity rate: 99%

Currently being used

for pilots in pre-event

trials

testing

NOTE: *Sensitivity is the test's ability to identify those infected as positive, while specificity is the ability to identify those not infected as negative. The rates here are estimates and may differ between different test brands.

**These are rough estimates. Costs are in SGD and differ based on factors such as logistics, manpower and economies of scale.

Particles known as volatile

organic compounds, produced by biochemical reactions in human cells

One minute or less

Sensitivity rate: 93%

Specificity rate: 95%

Estimated at around \$27

Clinical trial ongoing at

tests in public places

Source: BREATHONIX, MOH STRAITS TIMES GRAPHICS

NCID: plans to have more

each nostril and to the back of the throat, and

Genetic sequences of

Sensitivity rate: >93%

Specificity rate: >95%

The "gold standard" of

testing and the default

twirled

Covid-19

A few days

Up to \$200

test used here

What it detects

their results

the test is*

Status

How soon people can get

How specific and sensitive

How much it costs**