

Product details

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Name of product		AccuPower® SARS-CoV-2 Real-Time RT-PCR Kit (Product Code : SCV-2122)																									
Manufacturer		8-11, Munpyeongseo-ro, Daedeok-gu, Daejeon 34302 Republic of Korea																									
Test description		<div><ul style="list-style-type: none"><i>Intended use of the product:</i> AccuPower® SARS-CoV-2 Real-Time RT-PCR Kit is an in vitro diagnostic kit that helps diagnose COVID-19(Coronavirus disease 2019). This kit is designed for the detection of SARS-CoV-2 (E gene and RdRp gene) RNA from a COVID-19(Coronavirus disease-19) suspected patient's sample such as sputum, nasopharyngeal swab, oropharyngeal swab through Real-Time Polymerase chain reaction (PCR).<i>Sample type :</i> RNA from a suspected infection patient's sample (such as sputum, nasopharyngeal swab, oropharyngeal swab)<i>Gene target(s)</i> E gene and RdRp gene<i>Reagents included in the kit</i> The kit includes :<table><tr><th colspan="2">Reagent</th><th>Quantity</th><th>Unit</th></tr><tr><td>①</td><td>Master Mix</td><td>1,000 μℓ/tube X 1 ea</td><td>1.5ml tube (green cap)</td></tr><tr><td>②</td><td>Enzyme Mix</td><td>500 μℓ/tube X 1ea</td><td>1.5ml tube (red cap)</td></tr><tr><td>③</td><td>Oligo Mix 1*</td><td>250 μℓ/tube X 1 ea</td><td>1.5ml tube (amber)</td></tr><tr><td>④</td><td>Oligo Mix 2</td><td>250 μℓ/tube X 1 ea</td><td>1.5ml tube (amber)</td></tr><tr><td>⑤</td><td>Positive Control (PC)</td><td>150 μℓ/tube X 1 ea</td><td>1.5ml tube (blue cap)</td></tr></table><p>*Oligo Mix 1 :There is a green band on label's right side.</p><i>Control material</i> The Kit includes a positive control as indicated above<i>Number of reactions per kit</i> 50 tests / kit<i>Storage condition</i> Below -20 °C for 6 months</div>		Reagent		Quantity	Unit	①	Master Mix	1,000 μℓ/tube X 1 ea	1.5ml tube (green cap)	②	Enzyme Mix	500 μℓ/tube X 1ea	1.5ml tube (red cap)	③	Oligo Mix 1*	250 μℓ/tube X 1 ea	1.5ml tube (amber)	④	Oligo Mix 2	250 μℓ/tube X 1 ea	1.5ml tube (amber)	⑤	Positive Control (PC)	150 μℓ/tube X 1 ea	1.5ml tube (blue cap)
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4 Interfering substance

The test substance containing the interfering substance was found to have a result within SD <2, CV<5% compared to control.

Substances	Concentration	Result findings
Control	-	-
Napazoline hydrochloride	5 µg/ml	No interference
Xylomethazolin hydrochloride	1 mg/ml	No interference
Oxytetracycline Hydrochloride	5 mg/g	No interference
Hemoglobin	40 mg/ml	No interference
Human Whole blood	10 ng/ul	No interference
EDTA	540 mg/dl	No interference

5 Precision

To evaluate the repeatability of AccuPower® SARS-CoV-2 Real-Time RT-PCR Kit, within-run, between-run, between-day, and total precision were determined. 2 replicates of three different concentrations of Positive Controls (1x PC, 1/10x PC, 1/1000x PC) per run were tested twice per day for 10 days. The standard deviation (SD) of the assay results are shown in Table.

Target	concentration (copy/rxn)	Within-run(SD)	Between-run(SD)	Between-day(SD)	Total precision(SD)
E gene	1 x 10 ⁵	0.09	0.06	0.02	0.11
	1 x 10 ⁴	0.06	0.03	0.04	0.08
	1 x 10 ²	0.13	0.12	0.04	0.18
RdRp gene	1 x 10 ⁵	0.07	0.06	0.04	0.10
	1 x 10 ⁴	0.12	0.11	0.07	0.18
	1 x 10 ²	0.12	0.08	0.03	0.15