

Cat No. RDM101-X

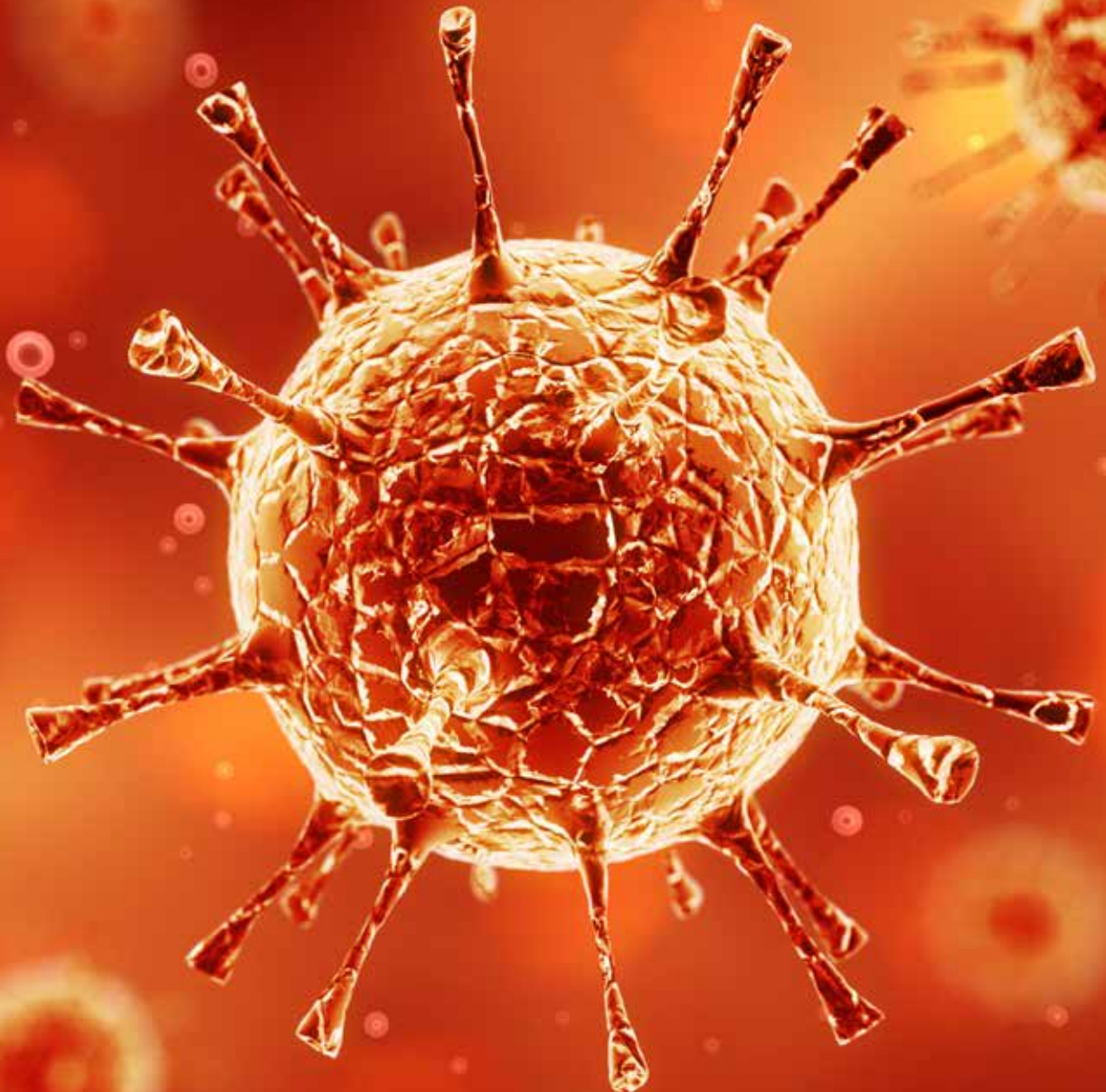
OPTOLANE's *Kaira*[®] 2019-nCoV Detection Kit

Key Features

Detection of COVID-19

Ready to use kit including PCR control and Positive Control

Compatible with various real-time PCR system

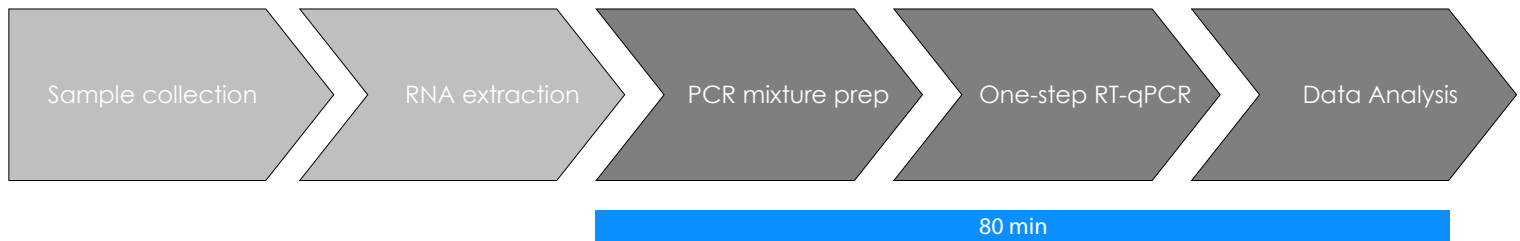


Product Overview

- **Detection Target Region** RdRP gene, E gene
- **Specimen type** Nasopharyngeal swab, Oropharyngeal swab, Sputum
- **Instrument** Applied Biosystems QuantStudio 5 Real-Time PCR System
Applied Biosystems 7500 Real-Time PCR Instrument System
Bio-rad CFX 96 DX system
- **Detection method** Qualitative detection of 2019-nCoV
- **Linearity** $1.12 \times 10^5 \sim 1.12 \times 10^{-1}$ copies/uL.
- **Limit of Detection** 1.38 copies/uL (95% CI 0.76 ~2.46) for E-gene; 6.46 copies/uL (95% CI 4.07 ~10.23) for RdRP
- **Specificity** No cross-reactivity with any micro-organisms including any Dengue virus subtypes
- **Linearity** $1.12 \times 10^5 \sim 1.12 \times 10^{-1}$ copies/uL
- **Fluorophore:**

Detection Target	5' Fluorophore	3' Quencher
2019-nCoV (RdRP, E)	FAM/HEX	BHQ1
PCRC (PCR Control)	Cy5	(Int TAOTM) IB®RQ

Test Workflow



Data Analysis

[Interpretation]

Type	Target Result		PCRC Result (Cy 5)	Results
	2019-nCoV			
	RdRP(FAM)	E (HEX)		
Positive Control	+	+	+	Valid
NTC	-	-	+	Valid
Sample case 1	+	+	+/-	2019-nCoV Detected
Sample case 2	-	+	+/-	Negative
Sample case 3	-	-	+	
Sample case 4	-	-	-	Invalid

[Cut-off]

Analyte	Fluorophore	Cut-off Ct value f or positive
2019-nCoV RdRP	FAM	≤ 37.5
2019-nCoV E	HEX(VIC)	≤ 36.0
PCRC	Cy5	$25 \leq Ct \leq 35$

Ordering Information

Product Name	Cat No.	Kit Size	Shelf life
Kaira 2019-nCoV Detection Kit	RDM101-X	100 reactions / Kit	12 months

- The kit is shipped on dry ice, the components of kit should be frozen.
- All components should be stored -25°C ~ -15°C upon arrival.

EC
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