Palm PCR™ COVID-19 Fast Real-time RT-PCR Kit

The State of the Art COVID-19 Diagnosis

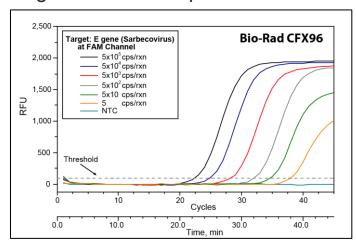
Part No. DX5010

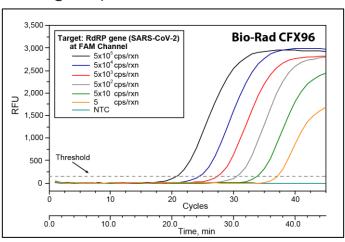
- Ultra-fast RT-PCR Assays: Within 50 min on conventional real-time PCR instruments
- > Two Target Test: E gene and RdRP gene (one target per tube)
- High Sensitivity & Specificity: 100% PPA and 100% NPA
- High Throughput: Over 368 patients (768 assays) per 8 hours
- ➤ More than 200% Enhancement of RT-PCR Throughput



Ultra-Fast RT-PCR Assays with Extreme Sensitivity

- ➤ The Shortest RT-PCR Time: ≤ 50 min on Bio-Rad CFX96 and ABI QuantStudio 5, and 58 min on ABI 7500 Fast (3 min for reverse transcription, 1 min for hot start, and 1 min per cycle)
- ➤ Ultimate High Sensitivity: Can detect down to 5 copies/reaction of SARS-CoV-2 with at least 95% hit rate (LoD: 8.2 copies/reaction for E gene and 5.3 copies/reaction for RdRP gene)





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Assay Format and Product Components

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- Two Assay Format: Assay 1 using Premix 1 for detecting E gene that is common to Sarbecovirus; and Assay 2 using Premix 2 for detecting RdRP gene that is specific to SARS-CoV-2
- ➤ Each assay contains an internal control (IC) to exclude the possibility of false-negative results due to inefficient or false RNA extraction.

Product Components

Component	Quantity	Cap color
Premix 1 for E gene (lyophilized)	50 tests x 2	Green
Premix 2 for RdRP gene (lyophilized)	50 tests x 2	Green
Reconstitution buffer	850 μL x 4	Yellow
Positive Control	100 μL	Red
Negative Control	500 μL	Blue

Lyophilized Premix Format - Robust and Simple to Use

- ➤ Each Assay is provided in a lyophilized Premix that contains all core components for the RT-PCR assay, including fast enzymes, primers, probes and dNTP, in a temperature-resistant lyophilized form.
- ➤ **Multiples of Advantages** for simplifying the RT-PCR diagnosis and securing the high sensitivity and specificity from the shipment to use:
 - ✓ Longer shelf life 12 months from the date of production
 - ✓ Cheaper shipping cost Ice pack shipment (the dry ice not required)
 - ✓ Easy to use Just add Premix + Sample (no multi-component preparation)
 - ✓ Sensitivity and Accuracy guaranteed

Medical Device Certifications

- > KFDA Approved: Product License No. IVD-20-569
- > Mexico INDRE Approved: Oficio No. DGE-DDYR-11170-2020
- > US FDA EUA under Review: Submission No. PEUA201671
- > Health Canada EUA under Review: Submission No. 313758