



SUPPORTING COVID-19 RESEARCH

The Diagnostic Workflow Process

AN ILLUSTRATIVE GUIDE TO SAMPLE STORAGE

phcbi

FIRST

THE VIRUS SWAB

Samples from the patients are taken
and then stored in a -80°C or lower freezer.



VIP ECO

Natural Refrigerants

[Click here to view the PHCbi
VIP ECO Ultra-Low Temperature Freezers](#)

TwinGuard



SECOND

THE GENETIC EXTRACTION

The RNA from the sample is extracted from the viral specimen and then delicately archived in the ultimate sample storage at -80°C .

RNA

[**Click here to view the PHCbi TwinGuard Series**](#)

THIRD

THE AMPLIFICATION

The test kits are used to amplify genetic material for detection. These kits contain enzymes, DNA PCR Primers, and Buffers. Primers/Probes for PCR are then stored accordingly as follows.

i. One aliquot of primers/probe at 2°C-8°C in the dark.
placed in storage such as pharmaceutical fridges.

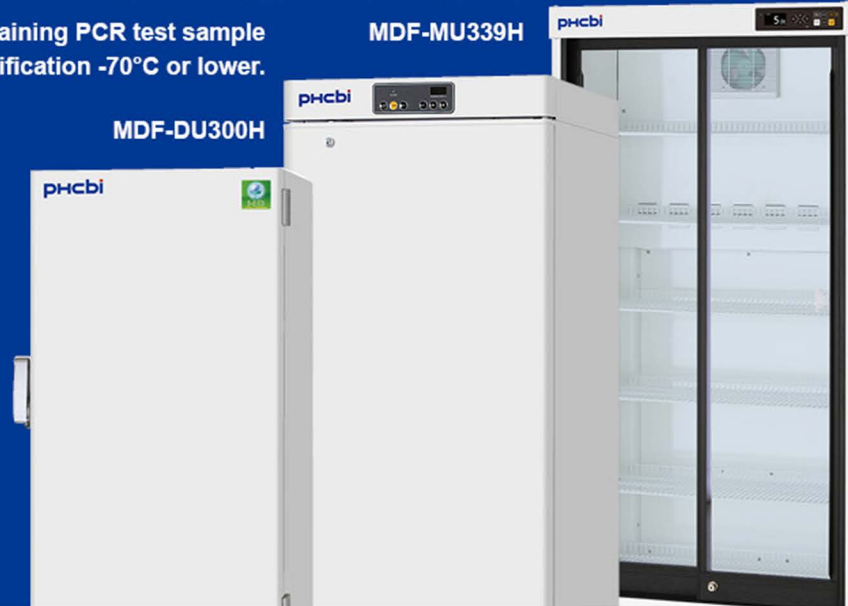
ii. Store remaining aliquots at less
than -20°C in a non-frost-free freezer.

MPR-S300H

iii. Storage of remaining PCR test sample
for future verification -70°C or lower.

MDF-MU339H

MDF-DU300H



[Click here to view the PHCbi lineup at esbe.com](http://esbe.com)



FOURTH

THE FINAL RESULT

The amplified cDNA copies for detection.
Then the required storage of PCR test sample at -80C.



TwinGuard

cDNA



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