

CDC Mandated lab equipment for PCR Detection of 2019-Novel Coronavirus

Effective February 04, 2020, The Centers for Disease Control and Prevention, Respiratory Viruses Branch, Division of Viral Diseases published *Instructions for Use of RealTime RT PCR Panel for Detection of 2019-Novel Coronavirus*. This document describes the use of rRT-PCR assays for the *in vitro* qualitative detection of the 2019-Novel Coronavirus (2019-nCoV) in respiratory specimens and sera. This document also defines requirements for **BIOSAFETY PRECAUTIONS** for specimen processing and specimen **STORAGE REQUIREMENTS**.

PHC CORPORATION OF NORTH AMERICA MAINTAINS A ROBUST INVENTORY OF LABORATORY PRODUCTS DESIGNED TO COMPLY WITH BIOSAFETY PRECAUTIONS AND STORAGE REQUIREMENTS IN OUR USA FACILITY.

The products below conform to CDC mandates are in stock and available for immediate shipment.

For more information on requirements outlined in Instructions for Use refer to:

- <https://www.cdc.gov/coronavirus/2019-ncov/downloads/rt-pcr-panel-for-detection-instructions.pdf>

STORAGE REQUIREMENTS

The CDC mandates the specimens can be stored at 4°C for up to 72 hours after collection. If a delay in extracted is expected, storage is required at -70°C or lower. Extracted nucleic acids should be stored at -70°C or lower. The Instructions for Use call out for use 4°C refrigerator and non-frost-free freezers specified to -20°C and -70°C

- Residual specimen and nucleic acid extract stored at -70°C
- rRT-PCR aliquot primers/probe stored at 2-8°C in the dark
- Remaining aliquots stored at -20°C in a non-frost-free freezer

Ultra-Low Temperature Storage Freezers

PHCbi brand -80°C ultra-low temperature freezers are designed to comply with CDC recommendations and other mandates for storage of viral specimens, extracted RNA and cDNA, and other diagnostic outcomes needed for current for future research.

- Cabinet orientations and sizes are consistent with typical industry dimensions to enable quick, easy installation for new or replacement use.
- VIP® Series feature LED displays
- VIP ECO Series feature natural eco-friendly refrigerants, low energy draw, and touch-panel control
- TwinGuard™ Series have redundant refrigeration systems for added confidence
- PHCbi performance record for reliability, fast temperature recovery and long-term stability is documented by years of successful deployment in labs around the world

VWR #	PHCbi #	Product	Volume	Temp. Range	Description
76269-676	MDF-DU502VH-PA	VIP ECO	18.6 cu.ft.	-50°C to -86°C	220V, ENERGY STAR
76305-596	MDF-DU502VHA-PA	VIP ECO	18.6 cu.ft.	-50°C to -86°C	115V, ENERGY STAR
76020-716	MDF-DU702VH-PA	VIP ECO	25.7 cu.ft.	-50°C to -86°C	220V, ENERGY STAR
76305-598	MDF-DU702VHA-PA	VIP ECO	25.7 cu.ft.	-50°C to -86°C	115V, ENERGY STAR
76371-774	MDF-DU901VHA-PA	VIP ECO	29.8 cu.ft.	-50°C to -86°C	115V, ENERGY STAR
76200-148	MDF-DU302VX-PA	TwinGuard	12.7 cu.ft.	-50°C to -86°C	220V, Upright Dual Refrigeration
76019-346	MDF-DU502VXC-PA	TwinGuard	18.6 cu.ft.	-50°C to -86°C	220V, Upright Dual Refrigeration
76019-348	MDF-DU702VXC-PA	TwinGuard	25.7 cu.ft.	-50°C to -86°C	220V, Upright Dual Refrigeration
75788-512	MDF-DC700VXC-PA	TwinGuard	25.3 cu.ft.	-50°C to -86°C	220V, Chest Dual Refrigeration
10046-914	MDF-U76VA-PA	VIP Series	25.7 cu.ft.	-50°C to -86°C	115V, Upright Freezer
10046-916	MDF-U76VC-PA	VIP Series	25.7 cu.ft.	-50°C to -86°C	220V, Upright Freezer
10046-902	MDF-C8V1-PA	VIP Series	3.0 cu.ft.	-60°C to -80°C	115V, Chest Freezer

High Performance Refrigerators and Biomedical Freezers

PHCbi brand laboratory refrigerators and biomedical freezers are specifically engineered and temperature mapped to assure fast recovery after door openings, internal temperature uniformity and stable storage of short-term storage of specimens, aliquots and primers.

VWR #	PHCbi #	Product	Volume	Temp. Range	Description
76355-506	MPR-722-PA	Pharmacy Refrigerator	24.2 cu.ft.	+2°C to +23°C	Wire Shelves
76355-508	MPR-722R-PA	Pharmacy Refrigerator	23.7 cu.ft.	+2°C to +23°C	Pull-Out Drawers
97035-146	MPR-514-PA	Vaccine Refrigerator	17.3 cu.ft.	+2°C to +14°C	Wire Shelves, ENERGY STAR
97035-148	MPR-514R-PA	Vaccine Refrigerator	17.2 cu.ft.	+2°C to +14°C	Wire Shelves, ENERGY STAR
97035-150	MPR-1014-PA	Vaccine Refrigerator	36.4 cu.ft.	+2°C to +14°C	Wire Shelves, ENERGY STAR
76383-294	MDF-MU339HL-PA	-30°C ECO Freezer	13.0 cu.ft.	-20°C to -30°C	Manual Defrost
76383-296	MDF-MU539HL-PA	-30°C ECO Freezer	17.8 cu.ft.	-20°C to -30°C	Manual Defrost
89429-298	MDF-U731-PA	-30°C Biomedical Freezer	22.0 cu.ft.	-15°C to -30°C	Manual Defrost, ENERGY STAR
10067-690	MDF-U731M-PA	-30°C Biomedical Freezer	24.4 cu.ft.	-18°C to -30°C	Manual Defrost, ENERGY STAR
89171-370	MPR-215F-PA	Combo Refrigerator/Freezer	6.2 cu.ft. Ref 1.4 cu.ft. Frz	+2°C to +14°C Ref -20°C to -30°C Frz	Wire Shelves
76353-816	MPR-N450FSH-PA	Combo Refrigerator/Freezer	11.5 cu.ft. Ref 4.8 cu.ft. Frz	+2°C to +14°C Ref -20°C to -30°C Frz	Glass Shelves, Solid Door
89230-124	MPR-715F-PA	Combo Refrigerator/Freezer	14.7 cu.ft. Ref 6.2 cu.ft. Frz	+2°C to +14°C Ref -20°C to -30°C Frz	Wire Shelves

VACCINE RESEARCH

CO₂ and Multi-gas CO₂/O₂ Incubators for ongoing Vaccine Research

PHCbi brand laboratory and cell culture incubators have been developed to maintain a contaminant-free controlled environment essential for healthy high-yield cell culture growth. Precise temperature, humidity and pH is managed by intuitive microprocessor controllers.

- For specialized protocols, our Multi-gas CO₂/O₂ model provides the ability to establish the most accurate *in vitro* models of the *in vivo* condition
- All incubators include inCusaFe® copper-enriched stainless steel germicidal interior surfaces
- High-heat and H₂O₂ decontamination methods are available for complete, rapid decontamination

VWR #	PHCbi #	Product	Volume	Description
76371-772	MCO-170ACL-PA	CytoGrow CO ₂	5.8 cu.ft.	Thermal Conductivity CO ₂ Control
75856-512	MCO-170AICUVDL-PA	High Heat Sterilization CO ₂	5.8 cu.ft.	Infrared CO ₂ Control, High Heat Decontamination
10119-820	MCO-170AICUVL-PA	Cell-IQ CO ₂	5.8 cu.ft.	Infrared CO ₂ Control, Optional H ₂ O ₂ Decontamination
76371-776	MCO-170AICUVHL-PA	Cell-IQ CO ₂	5.8 cu.ft.	Infrared CO ₂ Control, H ₂ O ₂ Decontamination
10830-874	MCO-230AICUVL-PA	Cell-IQ CO ₂	8.1 cu.ft.	Infrared CO ₂ Control
76383-302	MCO-170MP-PA	Cell-IQ CO ₂ /O ₂	5.7 cu.ft.	Infrared CO ₂ Control, Zirconia O ₂ Control



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