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Category: General SOP for instruments in Genetics laboratory.

Title: Operating the CFXR96 RT PCR System in the Department of Clinical Pharmacology, K.E.M Hospital, Parel, Mumbai 400012.

SOP No.: PCR INS-02

Date first effective: 1st January 2025

Review date: 31st December 2025

Department of Clinical Pharmacology, 1st floor, New MS building Seth GS Medical College & KEM Hospital, Parel, Mumbai 400012.

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Total pages: 05

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Version: 01

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Purpose: This standard operating procedure (SOP) describes the method for operating the CFXR 96 System Genotyping.

Scope: This SOP is limited for operating the CFXR96 RT PCR System.

Responsibilities:

Primary Responsibility: Divya Bhere
Lab Technician

Divya Bhere
30/12/2024

Secondary Responsibility: Dr. Sheetal Kudtarkar
Project Scientist

Sheetal Kudtarkar
30/12/24

CFXR 96 RT PCR system User Guide.

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Detailed Instructions:

Important: This procedure should be carried out wearing gloves

1. Press 'ON' button on UPS and Switch 'ON' the CFXR 96 RT PCR System.
2. Open the Laptop which is connected to CFXR 96 RT - PCR Machine
3. In the home screen open the **Bio-Rad CFX Maestro** application.
4. Choose user defined.
5. Choose select existing for select protocol, Click particular project folder to display the protocol within the folder.
6. Click next to choose Plate Click particular project folder to display the plate within the folder.
7. Click open the lid and place the 96 well plate in the block of interest in the sample tray.
8. Click close lid and start run.
9. Save the results in particular folder.
10. After completion of the run, Click open lid.
11. Remove the 96 well Plate and click the close lid.
12. Close the application, and shut down the laptop.
13. Switch 'OFF' CFXR 96 RT PCR System
14. Switch off the main switch.

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