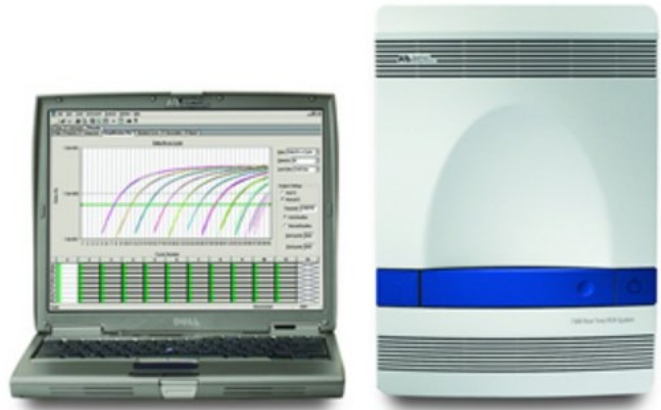


Real Time PCR:

Instrument Details:

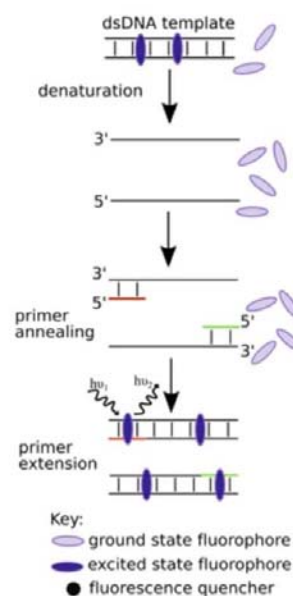
1. **Make:** Thermo Fischer Scientific
2. **Model:** 7500 Real Time PCR System
3. **Specification:**
 - a. 5-color dye flexibility in a trusted 96-well format.
 - b. Compatible with optically viable 96 well plate from various manufacturers.



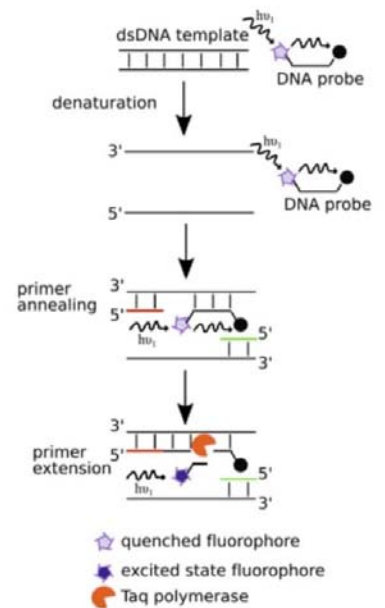
Working Principle:

A real-time polymerase chain reaction (Real-Time PCR), also known as quantitative polymerase chain reaction (qPCR), is based on the polymerase chain reaction (PCR). It monitors the amplification of a targeted DNA molecule during the PCR, i.e. in real-time. Real-time PCR can be used quantitatively (quantitative real-time PCR), and semi-quantitatively, i.e. above/below a certain amount of DNA molecules (semi quantitative real-time PCR).

Fluorescent dye-based real-time PCR



DNA probe-based real-time PCR



Applications:

1. Quantification of gene expression
2. Absolute Quantitation Using Standard Curve
3. Standard curve experiments
4. Relative Quantitation Using Comparative CT

User Instructions:

1. Sample Submission:

- a. User Should mention the type of analysis required for the experiment.
- b. Information such as amount of template and primer to be added should be provided along with the reaction volume .
- c. The operating conditions such as temperature setting and number of cycle should be given.
- d. Source of the sample should be informed. User should ensure that there is non-toxic sample being submitted. Samples should not be toxic, hazardous or radioactive.

2. Results:

- a. User should provide contact details to collect the data after the sample analysis is complete.
- b. The experimental data provided is only for research / development purposes. These cannot be used as certificates in legal disputes.
- c. Samples will not be analyzed till payment is received.

Basic charges:

Type of Analysis	Pricing academic	Industry	Sample volume	Sample Type
Plate Reading (without setup)	Rs 708 per plate	Rs 1416 per plate		Processed plate by user
Plate setup (1-10 reaction)	Rs 295 per reaction	Rs 590 per reaction	Standardized by pcr at user end	cDNA template and primer provided by user
Plate setup (half plate) 48 reactions	Rs 11800	Rs 23600	Standardized by pcr at user end	Protein sample
Plate setup (full plate) 96 reactions	Rs 18800	Rs 35400	Standardized by pcr at user end	Protein sample

PAYMENT:

External Users: Information

1. Academic Institutions:

User can come personally and bring a letter from the Guide/HOD on the Institution's Original Letter Head along with the Registration Form and Demand draft. The letter must clearly indicate whether the samples are for Research or Consultancy purposes. The letter should be addressed to Mr. Vinod Kumar Mishra Staff Scientist, Head, Sophisticated Equipment Facility (SEF) Centre For DNA Fingerprinting and Diagnostics(CDFD) Hyderabad Email- sefcdfd@cdfd.org.in, vk mishra@cdfd.org.in

3. Industry & Non-Government Agencies:

User can come personally and bring a letter signed by an authorized signatory of their Institution on Original Letter Head along with the Registration Form and Demand draft. The letter should

be addressed to Mr. Vinod Kumar Mishra Staff Scientist, Head, Sophisticated Equipment Facility(SEF) Centre For DNA Fingerprinting and Diagnostics(CDFD) Hyderabad Email- sefcdfd@cdfd.org.in, vkishra@cdfd.org.in

Tariff for external users: Basic charges + GST* (as applicable)

*GST rate as on 1.8.2017

General instructions to the users:

Payment Mode: Payment should in the form of a Demand Draft (DD) drawn in favour of “The DIRECTOR CDFD HYDERABAD”.

Appointment: The users will be informed about their date and time-slot by email. If the day and timeslot is not suitable for you, an email request to sefcdfd@cdfd.org.in, vkishra@cdfd.org.in should be sent immediately for an alternate slot.



CENTER FOR DNA FINGERPRINTING AND DIAGNOSTICS

SOPHISTICATED EQUIPMENT FACILITY

UPPAL, HYDERABAD

RT-PCR-REQUISITION FORM

NAME			DATE :
GROUP / SUPERVISOR			
INSTITUTION	a) CDFD []	b) Academic []	c) Industry []
NO.OF. SAMPLES			
SERVICE	a) Processing & scanning	b) Scanning	
ANALYSIS	a) Std. Curve []	b) Amplification Plot []	
SAMPLE INFORMATION Reaction volume(25ul)	a)Volume of template(1-4ul):	b)Primer Conc.(2-2.5ul):	
	c)Annealing Temp:	d)Data acquisition step:	
Name of the Sample & Primer			
DECLARATION	This is to certify that these samples do not contain Radioactive material Signature <input type="text"/>		

This is to submit that Content of this report is meant for our information only and we will not use the content of this report for advertisement, evidence, litigation or quote as certificate to third party.

Signature of Student

Signature of the Group Head