

**RT PCR**

**Photo of Instrument:**



<b>Instrument Name</b>	RT PCR
<b>Instrument Model &amp; Serial No.</b>	CFX96, 785BR13893
<b>Instrument Make</b>	Bio Rad
<b>Category of Instrument</b>	Bioscience and Technology
<b>Description of Instrument</b>	REAL TIME RPCR machine with 96 wells
<b>Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)</b>	Real time PCR works on principle of cDNA as template and amplifies it with suitable primers, added with florescent dye for real time amplification data, amplicon not more than 250bp. Comparative multiple gene fold/expression change analysis
<b>Application of Instrument (Limited to Major 4 or 5)</b>	Real time analysis of gene expression. Mutation detection at molecular basis. Comparative gene profiling. Can also be programmed for thermal cycler (PCR) reaction.
<b>Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions</b>	cDNA; ~100x diluted with specific primers amplifying not more than 250 bp of amplicon. SYBR mix or any such fluorescent DNA binding dye has to be used in form of whole PCR mix. BR white tubes of 100/200 ul are supposed to be used with transparent caps.
<b>Types of Analysis / Testing</b>	Gene expression comparative profiling.
<b>Faculty In-Charge Name / Email / Contact</b>	Dr. Md. Anaul Kabir / anaulk@nitc.ac.in/ 0495-228 5461

## **Department of Bioscience and Engineering, NIT Calicut**

<b>Technical Staff Name / Email / Contact</b>	sbtooffice@nitc.ac.in Ms. Sandhyadevi SM, Mr. Jishnu,
<b>Location of Instrument</b>	Molecular biology lab, Bioscience and Engineering Department.
<b>Other Details</b>	

### **User Charges:**

<b>S.NO.</b>	<b>Type of Analysis/Testing</b>	<b>Internal - within Department of NITC</b>	<b>Internal - Other Departments NITC</b>	<b>External Academic Educational Institutes</b>	<b>National Labs</b>	<b>Industry</b>
1	RT PCR	0	Rs 50 per sample	Rs 100 per sample	Rs 100 per sample	Rs 200 per sample

### **Slot Booking and Payment Work Flow:**

Contact

Ms. Sandhyadevi,

Email: sbtooffice@nitc.ac.in