

## Nanobiotechnology Lab

S. No.	Instrument	Specification			**Charges (₹)		
					Internal	External	Industry
01	Antibacterial Activity	Gram Positive <i>E. coli</i> & Gram Negative <i>S. aureus</i>	One Organism	Duplicates per Sample	200	250	500
			Two Organism		400	500	1000
			One Organism	Triplicates per sample	250	350	700
			Two Organism		500	700	1400
02	* <a href="#">Ultracentrifuge</a>	Optima XPN 100	100 Ti	1500 /hr	2000 /hr	4000 /hr	
			70 Ti	1125 /hr	1500 /hr	3000 /hr	
			SW 41 Ti	1125 /hr	1500 /hr	3000 /hr	
03	Phase Contrast	Nikon Upright Microscope Eclipse Ni - U			750 /hr	1000 /hr	2000 /hr
04	Fluorescence Microscope				800 /hr	1075 /hr	2150 /hr
05	Bright Field Microscope				100 /hr	150 /hr	200 /hr
05	Ion Chromatography	(883 Basic IC Plus) & Metrohm AG 9100 Herisau, Switzerland	Calibration Charges	500	1000	2000	
			Single element detection	200	250	300	
			Multi element detection	500	550	1100	
06	General Water parameters	Eutech Instruments	pH	75	100	150	
			Total Dissolved Solids	100	150	200	
			Salinity	100	150	200	
			Resistivity	100	150	200	
			Conductivity	100	150	200	
07	Dynamic Light Scattering (DLS)	Malvern Panalytical Zetasizer-ZS	Particle Size analyser	250	350	800	
			Zeta potential	350	500	1200	
			Particle Size analyser + Zeta potential	500	700	1800	
08	ICP-OES	Agilent 5110	Standard calibration charges	1500	2500	4000	
			Single element detection	150	200	400	
			Multi element detection	250	350	700	
09	Microwave Digester	Multiwave GO	Sample digestion using microwave digester	200	300	600	
10	MP-AES	Agilent 4210	Standard calibration charges	1000	2000	3000	
			Single element detection	100	150	300	
			Multi element detection	150	250	450	

11	Photoluminescence Spectroscopy	Shimadzu RF-5301PC	Solution/powder/thin films	350 /hr	500 /hr	1000 /hr
12	UV-Visible Spectroscopy	Shimadzu UV-1800	Solution/thin film	100	150	200

**\*Tube Charges will be applied additionally.**

**\*\* 18% GST is applicable for all the analysis.**

### Tissue Engineering Lab

S.No.	Type of experiment	**Charges (₹)		
		Internal	External	Industry
01	Cell adhesion along with fluorescent imaging (per sample)	1500	2500	4000
02	Cytotoxicity analysis (per sample)	500	800	1300
03	Fluoroscanner based DNA staining and analysis (per sample)	1000	2000	3000
04	Fluorescent staining of cells/DNA and imaging using inverted fluorescent microscopy (per hour)	1200	1800	2600
05	Use of inverted fluorescent microscopy (imaging only) (per hour)	600	1500	2500
06	Time lapsed cell imaging in Phase contrast microscope (per hour)	1500	3500	6000
07	Phase contrast microscope (per hour)	500	1000	3000
08	Bioprinter (Cellink BioX)	## On experimental basis		

## Depends on bioink, bioink volume, biomodel- contact [rsk@psgias.ac.in](mailto:rsk@psgias.ac.in) for further details

\*\* 18% GST is applicable for all the analysis.

### Ultracentrifuge tubes Details

Rotor	Tubes		Max Fill Volume (ml)	Max Speed/ RCF/ K factor	**Charges (₹)
	Description	Part number			
100 Ti	Quick-seal polyallomer bell-top (2ml)	345829	2.0	100000 rpm 802000 x g 17	518.00
	Quick-seal polyallomer bell-top (6ml)	344619	6.0	100000 rpm 802000 x g 15	572.00
	Quick-seal polyallomer bell-top (3.5ml)	349621	3.5	100000 rpm 802000 x g 9.4	464.00
70 Ti	Polycarbonate bottle and cap assembly (26.3ml)	355618	26.3	60000 rpm 371000 x g 59	4749.00
	Ultra-Clear (38.5ml)	344058	38.5	60000 rpm 371000 x g 59	603.00
	Thickwall polyallomer (30ml)	355642	30.0	60 000 rpm 371 000 x g 59	1020.00
	Thickwall polycarbonate (13.5ml)	355630	13.5 (min-7)	40000 rpm 151 000 x g 104	1159.00
	Thickwall polycarbonate (4ml)	355645	4.0 (min-2.5)	45000 rpm 102000 x g 69	1221.00
SW 41 Ti	Quick-seal polyallomer (3.5ml)	355870	3.5	41000 rpm 288000 x g 27	495.00
	Quick-seal konical polyallomer (8ml)	358649	8.0	41000 rpm 288 000 x g 108	681.00
	Thin wall polyallomer (13.2ml)	331372	13.2	41000 rpm 288 000 x g 124	660.00
	Ultra clear (13.2ml)	344059	13.2	41000 rpm 288 000 x g 124	603.00

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