



**Customer Service Cell**

**Biomedical Technology Wing**

**Sree Chitra Tirunal Institute for Medical Sciences & Technology**

(An Institute of National Importance under Govt. of India)

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**TEST CHARGES (PHYSICO-CHEMICAL TESTS)**

**(w.e.f 1<sup>st</sup> November 2016)**

Note: GST (18%) shall be charged extra

Sl.No.	Name of the test	Test Method/ Standard followed	Lab	External customers
1	X-Ray Diffraction Spectrum	Approved protocol	<b>Division of Bioceramics</b>	2100
2	Microhardness testing			1100
3	Mechanical Testing	Approved protocol based on ASTM	<b>Division of Polymeric Medical Devices</b>	
a	Tensile Test of dumbbells and rectangular strips WITHOUT extensometer			1500
b	Tensile Test of dumbbells and rectangular strips WITH			1700
c	Tensile Testing of sheets /plaques/films (WITHOUT extensometer & requiring sample			1700
d	Tensile Testing of sheets /plaques/films (WITH extensometer & requiring sample cutting to	Approved protocol based on ASTM	<b>Division of Polymeric Medical Devices</b>	2000
e	Tensile testing of biological tissues			2000
f	Tensile test (Devices)			1500
g	Compression test ( Cylindrical samples, preferred diameter 2mm and height 4 to 6 mm)			1500
h	Compression test ( Devices)			1500
4	Impact Testing (IZOD& CHARPY)	ISO 179, ISO 180	<b>Division of Polymeric Medical Devices</b>	2250
5	Dynamic Mechanical Analysis	Approved protocol		
a	Analysis of samples from ambient to desired high temperature			3600

b	Analysis of samples from – 150 <sup>0</sup> C to desired high temperature	Approved protocol	<b>Division of Polymeric Medical Devices</b>	7500	
6	Mechanical Testing using UTM	Approved protocol as per ASTM	<b>Division of Dental Products</b>	1400	
7	FTIR Spectroscopy	Approved protocol based on ASTM		1800	
a	Data file for each spectrum			300	
b	Overlay spectra			300	
8	Thermocycler			9750+225/hr	
9	Micro CT Testing	Approved protocol		8700	
	Supplementary analysis			300	
10	Vicker's Micro hardness Testing	Approved protocol as per ASTM		1100	
11	Thermal Analysis			<b>Polymer Analysis Laboratory</b>	
a	DSC (-50 <sup>0</sup> C to 400 <sup>0</sup> C) in Oxygen/ Nitrogen Atmosphere	ASTM E 1356 - 03			3300
b	DTA (RT to 1400 <sup>0</sup> C)	Approved protocol	3300		
c	TGA (RT to 1400 <sup>0</sup> C)	ASTM 1131-03	3300		
12	GPC/HPLC/GC				
a	Gel Permeation Chromatography: GPC	Approved protocol based on ASTM D 5306	3300		
b	HPLC	Approved protocol	2100		
13	FTIR Spectroscopy (ATR/ KBr)	Approved protocol based on ASTM	1800		
	Data in CD		150		
14	UV-VISIBLE light Spectroscopy	Approved protocol	1700		
15	Transmission Electron Microscopy (TEM) Analysis) - Biological	Approved protocol	<b>Transmission Electron Microscopy (TEM)</b>	9300	
a	Transmission Electron Microscopy (TEM) Analysis) - Inorganic			4500	
16	SEM Analysis	Approved protocol	<b>Scanning Electron Microscopy (SEM)</b>		
a	Scanning Electron Microscopy (SEM) Analysis (Without coating)			2300	
b	Scanning Electron Microscopy Analysis (with gold coating)			2300	
c	Scanning Electron Microscopy Analysis – Biological samples			3300	

d	Scanning Electron Microscopy Analysis (with critical point drying & gold coating)	Approved protocol	<b>Scanning Electron Microscopy (SEM)</b>	3300
e	Scanning Electron Microscopy - EDS Analysis			4200
f	SEM-EDS Analysis for Biological samples			4950
g	SEM (For more than 3 micrographs to a maximum of 5 - additional charge/ image)			300
h	SEM-EDS Analysis (For more than 2 image spectra additional charge/image spectra)			300
17	Profilometer - line scanning	Manufacturer instruction	<b>Calibration Cell</b>	1400
a	Profilometer - surface scanning			2700
18	Solution Viscosity of Biopolymers	Approved protocol	<b>Central Analytical Facility</b>	300/test(3 replicate samples)
19	Fluorescence Microscopy Imaging			600/hr
20	Luminescent Image Analysis			200/exposure
21	High-performance Liquid Chromatography			2100/sample
22	Mechanical testing of tissues (Texture Analysis)			900/test (6 replicate samples)
23	Micro Raman Spectroscopy			900/sample
24	Confocal Raman Microscopy			3000/sample
25	DSC (-90C to 550C) in nitrogen atmosphere			3300/sample
26	Atomic Force Microscopy			3000/sample
27	Quartz crystal nanobalance experiments			7600/test
28	Fluorescence Intensity and Absorbance Measurements - Microplate			150/plate
29	Fluorescence and Absorbance Scan - Microplate			150/plate
30	Environmental Ageing Experiments			1200/L/month