



Customer Service Cell
Biomedical Technology Wing
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TEST CHARGES (PHYSICO-CHEMICAL TESTS)

(w.e.f 1st October 2022)

Note: GST will be charged as applicable

Sl.No.	Name of the test	Test Method/ Standard followed	Lab	Test Charges - External - Industry	Test Charges - External - Academic	Test Charges - TIMed/TT Licensee
1	X-Ray Diffraction Spectrum	Approved protocol	Division of Bioceramics	1900	1500	1300
2	Microhardness testing			1000	800	700
3	ICP-OES (2 elements)			1200	1000	800
a	ICP-OES, For each extra element			400	350	300
4	Mechanical Testing	Approved protocol based on ASTM	Division of Polymeric Medical Devices			
a	Tensile Test of dumbbells and rectangular strips WITHOUT extensometer			1000	800	700
b	Tensile Test of dumbbells and rectangular strips WITH extensometer			1200	1000	800

c	Tensile Testing of sheets /plaques/films (WITHOUT extensometer & requiring sample cutting to dumbbells /rectangular strips)	Approved protocol based on ASTM	Division of Polymeric Medical Devices	1200	1000	800
d	Tensile Testing of sheets /plaques/films (WITH extensometer & requiring sample cutting to dumbbells /rectangular strips)			1300	1000	900
e	Tensile testing of biological tissues			1300	1000	900
f	Tensile test (Devices)			1000	800	700
g	Compression test (Cylindrical samples, preferred diameter 2mm and height 4 to 6 mm)			1000	800	700
h	Compression test (Devices)			1000	800	700
5	Impact Testing (IZOD& CHARPY)	ISO 179, ISO 180		800	700	600
6	Dynamic Mechanical Analysis	Approved protocol				
a	Analysis of samples from ambient to desired high temperature		1400	1100	1000	
b	Analysis of samples from – 150°C to desired high temperature		4200	3400	2900	
7	Micro injection moulding	Approved protocol		3100	2500	2100

8	Mechanical Testing using UTM	Approved protocol as per ASTM	Division of Dental Products	1000	800	700
9	Thermocycler(For a batch of less than 500gm for first 2 hours)	Approved protocol		8800	7000	6200
10	Shore A Shore D			150	125	100
11	Dynamic Light Scattering			400	350	300
12	Zeta Potential			600	500	400
13	Thermal Analysis		Central Analytical Facility			
a	DSC-Differential scanning calorimetry (scan rate 10 °C/min or above)	ASTM D3418		1500	1200	1100
b	DSC- Differential scanning calorimetry (scan rate 5 °C/min or below)			1800	1400	1300
c	DTA- Differential thermal analysis(Up to 600°C)	Approved protocol		1800	1400	1300
d	DTA-Differential thermal analysis(Up to 1200°C)			2800	2200	2000
e	TGA-Thermogravimetric analysis (Up to 1200°C)	ASTM 1131		2800	2200	2000
f	TGA-Thermogravimetric analysis (Up to 600°C)			1800	1400	1300
14	GPC/HPLC/GC					
a	Gel Permeation Chromatography: GPC	Approved protocol based on ASTM D 5296	1700	1400	1200	
b	High-performance Liquid Chromatography HPLC : purity assay/single sample (Qualitative)	Approved protocol	600	500	400	

c	HPLC: Quantification(standards &sample)		Central Analytical Facility	1700	1400	1200
d	HPLC: Estimation of residual Ethylene glycol (EG) and ethylene chlorohydrin (ECH)			1700	1400	1200
e	Gas chromatography GC (Residual Ethylene oxide)	Approved protocol based on ISO 10993-7		3500	2800	2500
f	Gas chromatography: purity assay/single sample (Qualitative)	Approved protocol		2000	1600	1400
g	Gas chromatography: Quantification(standards &sample)			3500	2800	2500
15	FTIR Spectroscopy (ATR/ KBr)	Approved protocol		1100	900	800
16	UV-Visible Absorption analysis					
a	UV-Visible Absorption analysis(Qualitative)			400	350	300
b	UV-Visible absorption analysis (Quantitative)			800	700	600
17	Solution Viscosity of Biopolymers			400	350	300
18	Fluorescence Microscopy Imaging			500	400	300
19	Luminescent Image Analysis			300	250	200
20	Mechanical testing of tissues (Texture Analysis)			800	600	550
21	Micro Raman Spectroscopy			800	700	600

22	Confocal Raman Microscopy			1700	1300	1200		
23	Mechanical testing			1000	800	700		
24	XRF Elemental Analysis of metals and alloys			400	350	200		
25	RoHS compliance			500	400	350		
26	Fluorescence spectroscopic analysis			400	350	300		
27	Conformability of Primary Wound Dressing			700	600	500		
28	Tensile strength and elongation at break of PPE			Approved protocol	Central Analytical Facility	700	600	500
29	Tear strength of PPE (Trapezoidal method)	700	600			500		
30	Tear strength of fabrics (Single rip procedure)	700	600			500		
31	Synthetic blood penetration test of PPE	3800	3000			2700		
32	Water vapour transmission rate of PPE and fabrics	1000	800			800		
33	Tensile strength and elongation at break of medical gloves	1300	1000			900		
34	Injectability and syringeability of gels/liquids	600	500			400		
35	Transmission Electron Microscopy	Approved protocol	Transmission Electron Microscopy (TEM)			8400	6700	5900
a	Transmission Electron Microscopy (TEM) Analysis) - Biological					4100	3300	2900
b	Transmission Electron Microscopy (TEM) Analysis) - Inorganic							

36	SEM Analysis	Approved protocol	Scanning Electron Microscopy (SEM)			
a	Scanning Electron Microscopy (SEM) Analysis (Without coating)			2100	1700	1500
b	Scanning Electron Microscopy Analysis (with gold coating)			2100	1700	1500
c	Scanning Electron Microscopy Analysis – Biological samples	3000		2400	2100	
d	Scanning Electron Microscopy Analysis (with critical point drying & gold coating)	Approved protocol		3000	2400	2100
e	Scanning Electron Microscopy - EDS Analysis			3800	3000	2700
f	SEM-EDS Analysis for Biological samples			4500	3600	3200
g	SEM (For more than 3 micrographs to a maximum of 5 - additional charge/ image)			300	250	200
h	SEM-EDS Analysis (For more than 2 image spectra additional charge/image spectra)			300	250	200
37	E SEM Analysis					
a	E SEM Analysis (Biological)		6000	4800	4200	
b	ESEM analysis (Non-biological)	3300	2600	2300		
c	ESEM EDS analysis	3300	2600	2300		
38	Profilometer	Approved protocol	Calibration Cell			
a	Profilometer - line scanning			2200	1800	1500
b	Profilometer - surface scanning			4400	3500	3100

39	Ethylene Oxide sterilization		Lab for Extracorporeal Devices			
a	Ethylene Oxide sterilization(Partial load)			1500	1200	1100
b	Ethylene Oxide sterilization(Half load)			2500	2000	1800
c	Ethylene Oxide sterilization(Full load)			4500	3600	3200
40	FTIR Spectroscopy	Approved protocol	Division of Tissue Engineering & Regenerative Technologies	1100	900	800
a	Data file for each spectrum			300	250	200
b	Overlay spectra			300	250	200
41	Contact angle measurement			600	500	400
a	Image file			200	150	130
42	Calo test (AIO lab)		Lab for Artificial Internal Organs	2000	1600	1400
43	LCMS	Approved protocol	Microbial Technology			
a	Quantitative analysis			5250	4200	3700
b	Qualitative Analysis			1200	1000	800
44	Confocal microscopy			2000	1600	1400
a	Additional hour			750	600	500
45	Live animal imaging (BPI lab)		Lab for Biophotonics and Imaging	3000	2400	2100

Approved by

Signature

Signature
Head, BMTW