

JADUAL 1: SENARAI HARGA PERKHIDMATAN, SEWAAN DAN PRODUK DI LABORATORI VAKSIN DAN BIOMOLEKUL (VacBio)

Petunjuk:

Kategori A : Kakitangan Universiti / Pelajar / Persatuan UPM / Anak Syarikat UPM

Kategori B : Kerajaan / Badan Berkanun / Agensi Kerajaan

Kategori C : Badan Perniagaan Kerajaan / Swasta / Persendirian / Koperasi / Orang Awam

Bil	Nama Perkhidmatan/Sewaan/Produk	Saiz	Kadar (RM)			Jenis Kadar
			Kategori A	Kategori B	Kategori C	
1	PCR Test for NDV/IBV/IBDV/CAstV/ARV/FAdV/AIV/H9N2/HVT/Marek's Disease	Per Sample Per Test	180.00	190.00	210.00	Perkhidmatan
2	Sequence analysis for NDV/IBV/IBDV/FAdV/AIV	Per Sample Per Test	120.00	130.00	140.00	Perkhidmatan
3	ELISA (BioChek) for NDV/IBV/IBDV	Per Sample Per Test	5.50	5.50	5.50	Perkhidmatan
4	ELISA (BioChek) for EDS	Per Sample	11.00	11.00	11.00	Perkhidmatan
5	ELISA (BioChek) for ART	Per Sample	14.00	15.00	16.00	Perkhidmatan
6	ELISA (BioChek) for FAV	Per Sample	12.00	12.50	13.00	Perkhidmatan
7	ELISA (BioChek) for MG/MS	Per Sample Per Test	7.50	7.50	7.50	Perkhidmatan
8	Hemagglutination-Inhibition (HI) Test for NDV	Per Sample	4.50	4.50	4.50	Perkhidmatan
9	Hemagglutination-Inhibition (HI) Test for AIV H9N2	Per Sample	5.00	5.50	6.00	Perkhidmatan
10	Phylogenetic Analysis for NDV/IBV/IBDV/FAdV	Per Sample Per Test	180.00	190.00	210.00	Perkhidmatan
11	ELISA (BioChek) for REO	Per Sample Per Test	6.50	6.50	6.50	Perkhidmatan
12	Qubit Assay	per assay per sample	22.00	24.00	26.00	Perkhidmatan
13	Bioanalyzer - RNA Pico Chip	per chip (up to 11 samples)	320.00	350.00	380.00	Perkhidmatan
14	Bioanalyzer - High Sensitivity DNA Chip	per chip (up to 11 samples)	520.00	560.00	610.00	Perkhidmatan
15	Bioanalyzer - Small RNA Chip	per chip (up to 11 samples)	420.00	460.00	490.00	Perkhidmatan
16	NGS qPCR QC	per sample	390.00	420.00	460.00	Perkhidmatan
17	NGS - Nextera DNA Flex	per sample	*Rujuk Lampiran I			Perkhidmatan
18	NGS - 16S Metagenomics	per sample	*Rujuk Lampiran II			Perkhidmatan
19	NGS - Exome Rapid Capture	per enrichment	6,910.00	7,540.00	8,160.00	Perkhidmatan
20	NGS - Scriptseq v2 / Complete	per sample	*Rujuk Lampiran III			Perkhidmatan
21	NGS - Truseq RNA v2	per sample	*Rujuk Lampiran IV			Perkhidmatan
22	NGS - Truseq Stranded mRNA	per sample	*Rujuk Lampiran V			Perkhidmatan
23	NGS - Truseq DNA Methylation	per sample	*Rujuk Lampiran VI			Perkhidmatan
24	NGS - TruSight One	per sample	*Rujuk Lampiran VII			Perkhidmatan
25	High Pressure Homogenizer (HPH)	per hour	80.00	85.00	90.00	Perkhidmatan
26	Spray Dryer	Per Hour	88.00	96.00	104.00	Sewaan
27	Autoclave	Per Run	15.00	20.00	30.00	Sewaan
28	Bioanalyzer Access Fee	Per chip per run	55.00	60.00	65.00	Perkhidmatan

Bil	Nama Perkhidmatan/Sewaan/Produk	Saiz	Kadar (RM)			Jenis Kadar
			Kategori A	Kategori B	Kategori C	
29	Biospectrometer	Per sample (for DNA/RNA/ Nucleic Acid quantification only)	2.50	3.00	3.50	Sewaan
30	Chemiluminescence Imaging System (Chemi-doc)	Per read	25.00	30.00	40.00	Sewaan
31	CLCBio Workstation Access Fee	Per hour	12.00	15.00	20.00	Sewaan
32	Conventional PCR	Per hour	11.00	12.00	13.00	Sewaan
33	Elisa Reader	Per plate	11.00	12.00	13.00	Sewaan
34	Gel Doc (without print-out)	Per read	6.00	8.00	10.00	Sewaan
35	High Speed Centrifuge	Per hour	60.00	80.00	100.00	Sewaan
36	Next Generation Sequencer (MiSeq) Access/Running Fee	Per run	2,000.00	2,000.00	2,000.00	Perkhidmatan
37	Ultracentrifuge	Per hour	90.00	100.00	150.00	Sewaan
38	Ultra Purification Unit	Per liter	1.50	2.00	2.50	Produk
39	Mammalian Cells Revival & Maintenance Service	Per 10 cryovials per cell line (excluding media, supplements and reagents)	i) 900.00 (with consumables) ii) 450.00 (without consumable)	i) 1000.00 (with consumables) ii) 500.00 (without consumables)	i) 1200.00 (with consumables) ii) 600.00 (without consumables)	Perkhidmatan
40	Mammalian Cells Storage Facility	Per vial per week	8.00	10.00	15.00	Perkhidmatan
41	Fluorescence Microscope	Per hour	45.00	50.00	55.00	Sewaan
42	Fourier transform infrared spectroscopy (FT-IR)	Per sample	55.00	60.00	65.00	Perkhidmatan
43	Freeze Dryer (Lab Scale)	Per hour	15.00	18.00	23.00	Sewaan
44	Fully Automated Surface Plasmon Resonance (SPR – BIACORE)	Per day	440.00	460.00	480.00	Sewaan
45	High Pressure Chromatography Protein Purification & Analyzing System (Akta Explorer)	Per sample	280.00	300.00	350.00	Sewaan
46	Lab Scale Fermenter System	Per day	2 L – RM 270 10 L – RM 450	2 L – RM 300 10 L – RM 500	2 L – RM 350 10 L – RM 600	Sewaan
47	Pilot Scale Protein Purification System (Akta Pilot)	Per sample	220.00	250.00	400.00	Sewaan
48	Protein Handling and Testing System	Per run	220.00	250.00	400.00	Sewaan
49	UV/VIS Spectrophotometer	Per hour	12.00	15.00	20.00	Sewaan
50	Bench fee	Per person per week (5 working days/week, 8 working hours/day)	350.00	400.00	500.00	Sewaan
51	Real-Time PCR (qPCR) System Access Fee	Per run	55.00	60.00	65.00	Sewaan
52	Zetasizer	Per Sample	130.00	140.00	160.00	Perkhidmatan

LAMPIRAN I : VacBio-17(P) - Nextera DNA Flex

	Kategori	Number of Samples												
		1	2	4	6	8	10	12	14	16	18	20	22	24
Kadar (RM)	Kategori A	860	1090	1540	2330	2870	3410	4480	5190	5730	6260	6800	7330	8400
	Kategori B	940	1190	1680	2540	3130	3720	4880	5660	6250	6830	7420	7990	9170
	Kategori C	1010	1290	1820	2760	3390	4030	5290	6140	6770	7400	8030	8660	9930

LAMPIRAN II : VacBio-18(P) - 16S Metagenomics

	Kategori	Number of Samples										
		1	2	4	6	8	10	12	14	16	24	48
Kadar (RM)	Kategori A	2200	3160	5060	8280	10570	12860	16210	18790	21080	31280	61500
	Kategori B	2400	3440	5520	9040	11530	14030	17690	20500	22990	34130	67090
	Kategori C	2600	3730	5980	9790	12490	15200	19160	22200	24910	36970	72680

LAMPIRAN III: VacBio-20(P) - Scriptseq v2 / Complete

	Kategori	Number of Samples												
		1	2	4	6	8	10	12	14	16	18	20	22	24
Kadar (RM)	Kategori A	1620	2340	3800	6200	7940	9720	12070	14120	15860	17600	19340	21080	23410
	Kategori B	1760	2560	4140	6770	8660	10610	13160	15410	17300	19200	21100	22990	25540
	Kategori C	1910	2770	4490	7330	9390	11490	14260	16690	18750	20800	22850	24910	27660

LAMPIRAN IV: VacBio-21(P) - Truseq RNA v2

	Kategori	Number of Samples												
		1	2	4	6	8	10	12	14	16	18	20	22	24
Kadar (RM)	Kategori A	1880	2680	4280	6940	8870	10790	13370	15290	17700	19620	21550	23470	25990
	Kategori B	2050	2930	4670	7570	9670	11770	14580	16680	19310	21410	23510	25610	28360
	Kategori C	2220	3170	5060	8200	10480	12750	15800	18070	20920	23190	25470	27740	30720

LAMPIRAN V: VacBio-22(P) - Truseq Stranded mRNA

	Kategori	Number of Samples												
		1	2	4	6	8	10	12	14	16	18	20	22	24
Kadar (RM)	Kategori A	1730	2460	3930	6390	8150	9920	12280	14100	16280	18040	19810	21580	23950
	Kategori B	1880	2690	4280	6970	8890	10820	13390	15380	17760	19680	21610	23540	26120
	Kategori C	2040	2910	4640	7550	9630	11730	14510	16670	19240	21320	23410	25510	28300

LAMPIRAN VI: VacBio-23(P) - Truseq DNA Methylation

	Kategori	Number of Samples												
		1	2	4	6	8	10	12	14	16	18	20	22	24
Kadar (RM)	Kategori A	1530	2090	3220	5130	6480	7830	9790	11190	12940	14290	15650	17010	18960
	Kategori B	1670	2280	3520	5590	7070	8540	10680	12200	14110	15590	17080	18550	20690
	Kategori C	1810	2470	3810	6060	7660	9260	11570	13220	15290	16890	18500	20100	22410

LAMPIRAN VII: VacBio-24(P) - TruSight One

	Kategori	Number of Samples												
		1	2	4	6	8	10	12	14	16	18	20	22	24
Kadar (RM)	Kategori A	1380	1780	2610	4030	5020	6010	7630	8620	10020	11010	12000	12990	14580
	Kategori B	1500	1940	2840	4390	5470	6550	8330	9410	10930	12010	13090	14170	15900
	Kategori C	1630	2110	3080	4760	5930	7100	9020	10190	11840	13010	14180	15350	17230

JADUAL 2: SENARAI HARGA PERKHIDMATAN, SEWAAN DAN PRODUK DI LABORATORI KESIHATAN DAN TERAPEUTIK HAIWAN AKUATIK (AquaHealth)**Petunjuk:**

Kategori A : Kakitangan Universiti / Pelajar / Persatuan UPM / Anak Syarikat UPM

Kategori B : Kerajaan / Badan Berkanun / Agensi Kerajaan

Kategori C : Badan Perniagaan Kerajaan / Swasta / Persendirian / Koperasi / Orang Awam

Bil	Nama Perkhidmatan/ Sewaan/Produk	Saiz	Kadar (RM)			Jenis Kadar
			Kategori A	Kategori B	Kategori C	
1	Compound Microscope with Imaging System	Per Hour	33.00	36.00	40.00	Sewaan
2	Stereo Microscope with Imaging System	Per Hour	33.00	36.00	40.00	Sewaan
3	Fish Microbial Identification	Per Strain	330.00	360.00	390.00	Perkhidmatan
4	Inorganic Anion By Ion Chromatography	Per sampel	35.00	40.00	50.00	Perkhidmatan
5	2 Dimensional Protein (2DE) System	Per sampel	340.00	350.00	360.00	Sewaan
6	Photobioreactor 100L	Per sampel	450.00	500.00	550.00	Sewaan
7	Water Quality Multiparameter Services	Per sampel	320.00	350.00	380.00	Sewaan
8	Freeze Dry System	Per sampel	30.00	40.00	50.00	Perkhidmatan
9	Boat Rental (5 Passenger)	Per trip	150.00	200.00	200.00	Sewaan
10	PCR thermal cycler	Per hour	30.00	35.00	35.00	Sewaan
11	Real Time qPCR	Per hour	99.00	109.00	120.00	Sewaan
12	ELISA Microplate Reader	Per plate	11.00	12.00	13.00	Sewaan
13	Nanodrop	Per sample	22.00	24.00	26.00	Sewaan
14	Autoclave	Per run	15.00	20.00	30.00	Sewaan
15	Gel Doc (without print-out)	Per read	15.00	20.00	25.00	Sewaan

JADUAL 3: SENARAI HARGA PERKHIDMATAN, SEWAAN DAN PRODUK DI LABORATORI PENYELIDIKAN KANSER UPM-MAKNA (CANRES)

Petunjuk:

Kategori A : Kakitangan Universiti / Pelajar / Persatuan UPM / Anak Syarikat UPM

Kategori B : Kerajaan / Badan Berkanun / Agensi Kerajaan

Kategori C : Badan Perniagaan Kerajaan / Swasta / Persendirian / Koperasi / Orang Awam

Bil	Nama Perkhidmatan/ Sewaan/Produk	Saiz	Kadar (RM)			Jenis Kadar
			Kategori A	Kategori B	Kategori C	
1	Ultra High-Performance Liquid Chromatography (UHPLC)	Per Sample	190.00	200.00	220.00	Perkhidmatan
2	Fraction Collector	Per vial	18.00	19.00	21.00	Perkhidmatan
3	ELISA Microplate Reader (Tecan)	Per plate	11.00	12.00	13.00	Sewaan
4	Microscope with Multi-viewer	Per hour (with training)	38.00	42.00	46.00	Sewaan
		Per hour	20.00	22.00	24.00	
5	Inverted Microscope with Imaging system (Nikon)	Per hour (with training)	36.00	40.00	44.00	Sewaan
		Per hour	19.00	21.00	23.00	
6	Compound Microscope with Imaging system (Olympus)	Per hour (with training)	34.00	37.00	41.00	Sewaan
		Per hour	18.00	20.00	22.00	
7	PCR Machine (PCR Mastercycler Gradients)	Per hour (with training)	40.00	44.00	48.00	Sewaan
		Per hour	20.00	22.00	24.00	
7	PCR Machine (PCR Mastercycler Gradients)	Per hour (with training)	40.00	44.00	48.00	Sewaan
		Per hour	20.00	22.00	24.00	
8	Bench Fee for Cell Culture Facilities	Per person per week	330.00	360.00	400.00	Sewaan
9	Cell Scepter	Per run	100.00	110.00	120.00	Sewaan
10	SDS PAGE system (Western Blot)	Per run	220.00	230.00	240.00	Sewaan
11	Gel Electrophoresis	Per run	220.00	230.00	240.00	Sewaan
12	Trans-Blot Turbo (Transfer Starter System)	Per hour	45.00	50.00	55.00	Sewaan
13	Gel Documentation System	Per read (dengan cetakan)	20.00	25.00	30.00	Sewaan
14	Gel Documentation System	Per read	15.00	20.00	25.00	Sewaan
15	Inverted Fluorescence Microscope with Imaging System	Per hour	70.00	80.00	95.00	Sewaan
16	Cytotoxicity Assay Screening (MTT Assay)	Per sample	360.00	440.00	510.00	Perkhidmatan

JADUAL 4: SENARAI HARGA PERKHIDMATAN, SEWAAN DAN PRODUK DI LABORATORI PENYELIDIKAN UBATAN DAN PRODUK SEMULAJADI (NaturMeds)

Petunjuk:

Kategori A : Kakitangan Universiti / Pelajar / Persatuan UPM / Anak Syarikat UPM

Kategori B : Kerajaan / Badan Berkanun / Agensi Kerajaan

Kategori C : Badan Perniagaan Kerajaan / Swasta / Persendirian / Koperasi / Orang Awam

Bil	Nama Perkhidmatan/Sewaan /Produk	Saiz	Kadar (RM)			Jenis Kadar
			Kategori A	Kategori B	Kategori C	
1	GenomeLab Genetic Analysis System	Per Hour	220.00	240.00	260.00	Sewaan
2	Multimode microplate reader	Per Plate	44.00	48.00	52.00	Sewaan
3	CO ₂ incubator	Per Day	66.00	72.00	78.00	Sewaan
4	Subcritical water extraction system	Per Hour	260.00	290.00	310.00	Sewaan
5	High Performance Liquid Chromatography	Per Sample	100.00	110.00	120.00	Sewaan
6	Zetasizer	Per Sample	130.00	140.00	160.00	Perkhidmatan
7	MTT Assay	Per Sample	420.00	460.00	490.00	Perkhidmatan
8	In vitro antioxidant test: DPPH Scavenging Activity	Per Sample	370.00	410.00	440.00	Perkhidmatan
9	In vitro antioxidant test: ABTS Cation Radical Scavenging Activity	Per Sample	360.00	400.00	430.00	Perkhidmatan
10	In vitro antioxidant test: Ferric Reducing Power	Per Sample	350.00	380.00	420.00	Perkhidmatan
11	In vitro antioxidant test: Iron Chelating Activity	Per Sample	250.00	280.00	300.00	Perkhidmatan
12	In vitro antioxidant test:Total Phenolic Content	Per Sample	350.00	380.00	420.00	Perkhidmatan
13	In vitro antioxidant test:Total Flavonoid Content	Per Sample	240.00	260.00	290.00	Perkhidmatan
14	Solvent Extraction	Per Sample	340.00	370.00	400.00	Perkhidmatan
15	Proximate analysis: Analysis of Lipid	Per Sample	120.00	130.00	140.00	Perkhidmatan
16	Proximate analysis: Analysis of Protein	Per Sample	55.00	60.00	65.00	Perkhidmatan
17	Proximate analysis: Moisture Content	Per Sample	22.00	24.00	26.00	Perkhidmatan
18	Proximate analysis: Ash	Per Sample	22.00	24.00	26.00	Perkhidmatan
19	Flourescence microscope	Per slide	22.00	25.00	27.00	Sewaan
20	PCR thermal cycler	Per hour	33.00	36.00	40.00	Sewaan
21	Real-Time PCR (RT-PCR)	Per hour	99.00	109.00	120.00	Sewaan
22	Nanodrop	Per sample	22.00	24.00	26.00	Sewaan
23	Proximate analysis	Per sample	220.00	242.00	266.00	Perkhidmatan
24	Gas Chromatography Mass Spectrometer (Shimadzu)					Perkhidmatan
	a) GC-MS	Per sample	240.00	270.00	300.00	
	b) DIP (EI)	Per sample	240.00	270.00	300.00	
	c) HEADSPACE	Per sample	280.00	315.00	350.00	
25	Microplate Reader (Tecan) -					Sewaan
	a) Endpoint Reading	Per plate	15.00	20.00	25.00	
	b) Kinetic Reading	Per hour	50.00	55.00	60.00	
26	Freeze Dryer (Labconco)	Per day	20.00	25.00	30.00	Perkhidmatan
27	Freeze Dryer (Labogene)	Per day	60.00	65.00	70.00	Perkhidmatan
28	Large Scale Rotary Evaporator	Per hour	24.00	27.00	30.00	Sewaan
29	Grinder	Per hour	10.00	11.00	12.00	Sewaan
30	Nuclear Magnetic Resonance Spectrometer (NMR) VnmrS 500MHz					Perkhidmatan

Bil	Nama Perkhidmatan/Sewaan /Produk	Saiz	Kadar (RM)			Jenis Kadar
			Kategori A	Kategori B	Kategori C	
	a) Eksperimen 1D : Proton	Per sample	60.00	70.00	80.00	
	Eksperimen 1D : Proton + Presat	Per sample	90.00	105.00	120.00	
	b) Eksperimen 1D : Proton + Presat + CPMG	Per sample	120.00	140.00	160.00	
	c) Eksperimen 1D : ¹³ C	Per hour	60.00	70.00	80.00	
	d) Eksperimen 1D : DEPT	Per hour	70.00	80.00	100.00	
	e) Eksperimen 1D : Selective Excitation 1D	Per sample	160.00	180.00	200.00	
	f) Eksperimen 2D : J-resolved	Per hour	80.00	100.00	125.00	
	g) Eksperimen 2D : COSY	Per sample	100.00	120.00	150.00	
	h) Eksperimen 2D : HSQC	Per hour	80.00	100.00	125.00	
	i) Eksperimen 2D : HMBC	Per hour	80.00	100.00	125.00	
	j) Eksperimen 2D : NOESY	Per hour	80.00	100.00	125.00	
31	Liquid Chromatography Mass Spectrometer (Thermo QE Focus)					Perkhidmatan
	a) Qualitative Analysis *Additional RM50.00 for MS/MS	Per injection	253.00	276.00	299.00	
	b) Quantitative Analysis (price /injection x 6 injections of standards and sample + Data Analysis)	Per injection	1,628.00	1,776.00	1,924.00	
	c) Direct Infusion	Per injection	210.00	231.00	252.00	
	d) Data Analysis	Per compound	110.00	120.00	130.00	
	e) Sample Preparation	Per sample	110.00	130.00	150.00	
32	Centrifugal Partitioning Chromatography (CPC)	Per hour	110.00	130.00	150.00	Sewaan
33	High Performance Liquid Chromatography (HPLC)					Perkhidmatan
	a) Qualitative Analysis	Per hour	110.00	130.00	150.00	
	b) Quantitative Analysis (price /injection x 6 injections of standards and sample + Data Analysis)	Per injection	80.00	90.00	100.00	
	c) Data Analysis	Per compound	160.00	180.00	200.00	
	d) Sample Preparation	Per sample	110.00	120.00	130.00	
34	Ultra High-Performance Liquid Chromatography (UHPLC)	Per Sample	190.00	200.00	220.00	Perkhidmatan
35	Cytotoxicity Assay Screening (MTT Assay)	Per sample	360.00	440.00	510.00	Perkhidmatan

JADUAL 5: SENARAI HARGA PERKHIDMATAN, SEWAAN DAN PRODUK DI UNIT KOLEKSI KULTUR MIKROB (UNICC)

Petunjuk:

Kategori A : Kakitangan Universiti / Pelajar / Persatuan UPM / Anak Syarikat UPM

Kategori B : Kerajaan / Badan Berkanun / Agensi Kerajaan

Kategori C : Badan Perniagaan Kerajaan / Swasta / Persendirian / Koperasi / Orang Awam

Bil	Nama Perkhidmatan/ Sewaan/Produk	Saiz	Kadar (RM)			Jenis Kadar
			Kategori A	Kategori B	Kategori C	
1	Safe Deposit: Preservation of Microorganisms using -80°C Freezer and Freeze Drying Technique (for first 5 years)	per sampel/ 5 tahun	540.00	680.00	KIV	Perkhidmatan
2	Safe Deposit: Preservation of Microorganisms in -80°C Freezer and Freeze Drying Technique (after the 5th year)	per sampel/ 1 tahun	170.00	186.00	205.00	Perkhidmatan
3	Request for the subsequent cultures (for depositor only)	per culture	100.00	110.00	120.00	Perkhidmatan
4	Viability Test (After prolonged storage of more than 3 months for depository upon depositor's request)	per sampel	30.00	33.00	35.00	Perkhidmatan
5	Preservation of Microorganisms	per 5 ampoules	160.00	170.00	180.00	Perkhidmatan
6	Antimicrobial Properties of Compound (APC)	per reaction/ culture	37.00	39.00	43.00	Perkhidmatan
7	Minimum Inhibitory Concentration (MIC) & Minimum Bactericidal Concentration (MBC)	per reaction/ culture (3 replicates)	100.00	120.00	130.00	Perkhidmatan
8	Viable Plate Count	per sample (3 replicates)	100.00	110.00	120.00	Perkhidmatan
9	Identification of Bacteria	Per strain	385.00	430.00	480.00	Perkhidmatan
10	Isolation of Bacteria	Per sample	330.00	360.00	390.00	Perkhidmatan
11	Pembekalan Mikroorganisma	per strain	335.00	360.00	370.00	Produk

JADUAL 6: SENARAI HARGA PERKHIDMATAN, SEWAAN DAN PRODUK DI UNIT MIKROSKOPI

Petunjuk:

Kategori A : Kakitangan Universiti / Pelajar / Persatuan UPM / Anak Syarikat UPM

Kategori B : Kerajaan / Badan Berkanun / Agensi Kerajaan

Kategori C : Badan Perniagaan Kerajaan / Swasta / Persendirian / Koperasi / Orang Awam

Bil	Nama Perkhidmatan/ Sewaan/Produk	Saiz	Kadar (RM)				Jenis Kadar
			Kategori A	Kategori B	Kategori C	MSISO / IEC 17025	
1	JEOL JEM 2100F FETEM/HRTEM	per hours	750.00	900.00	970.00	-	Perkhidmatan
2	Ion Slicer	per sample	120.00	145.00	160.00	-	Perkhidmatan
3	Cross Section Polisher	per sample	120.00	145.00	160.00	-	Perkhidmatan
4	Scanning Electron Microscope - Sample Processing	Per sample	65.00	73.00	80.00	88.00	Perkhidmatan
5	Scanning Electron Microscope - Critical Point Dryer	Per run	33.00	36.00	40.00	44.00	Perkhidmatan
6	Scanning Electron Microscope - Sputter Coater	Per run	46.00	52.00	58.00	63.00	Perkhidmatan
7	Viewing : SEM-High Vacuum	Per hour	134.00	150.00	168.00	182.00	Perkhidmatan
8	Viewing : SEM-Low Vacuum	Per hour	157.00	176.00	196.00	-	Perkhidmatan
9	Viewing : SEM-EDX	Per hour	226.00	255.00	282.00	307.00	Perkhidmatan
10	Viewing : FESEM	Per hour	400.00	450.00	500.00	625.00	Perkhidmatan
11	Viewing : FESEM & EDX	Per hour	500.00	550.00	600.00	750.00	Perkhidmatan
12	Transmission Electron Microscope - Sample Processing	Per sample	74.00	83.00	92.00	100.00	Perkhidmatan
13	Transmission Electron Microscope - Viewing	Per hour	230.00	250.00	276.00	300.00	Perkhidmatan
14	Ultramicrotome - Semithin section	Per sample	33.00	37.00	40.00	44.00	Perkhidmatan
15	Ultramicrotome - Ultrathin section	Per sample	40.00	46.00	52.00	57.00	Perkhidmatan
16	Ultramicrotome - Cryo-ultramicrotome	Per sample	115.00	138.00	173.00	-	Perkhidmatan
17	Confocal Microscope	Per hour	74.00	83.00	92.00	-	Perkhidmatan
18	Fluorescence Microscope	Per hour	46.00	52.00	58.00	46.00	Perkhidmatan
19	Automatic Tissue Processor/ Embedding Centre/Microtome	Per sample	52.00	58.00	64.00	-	Perkhidmatan
20	Carbon Coated Fomvar Grid/Fomver Grid	Per grid	23.00	26.00	29.00	32.00	Perkhidmatan

JADUAL 7: SENARAI HARGA PERKHIDMATAN, SEWAAN DAN PRODUK DI UNIT BIODIVERSITI (UBD)

Petunjuk:

Kategori A : Kakitangan Universiti / Pelajar / Persatuan UPM / Anak Syarikat UPM

Kategori B : Kerajaan / Badan Berkanun / Agensi Kerajaan

Kategori C : Badan Perniagaan Kerajaan / Swasta / Persendirian / Koperasi / Orang Awam

Bil	Nama Perkhidmatan/Sewaan/ Produk	Saiz	Kadar (RM)			Jenis Kadar
			Kategori A	Kategori B	Kategori C	
A Kultur Tisu Tumbuhan						
1	Kultur tisu peringkat 1 - 3	per botol	60.00	66.00	72.00	Perkhidmatan
2	Kultur tisu ex lab (<i>plantlets</i>)	per 300 pokok	594.00	648.00	702.00	Perkhidmatan
3	Subkultur	15 botol/ sampel	190.00	204.00	221.00	Perkhidmatan
4	Proses sterilization / nyahkuman	per sampel	850.00	930.00	1004.00	Perkhidmatan
B Penyulingan Minyak Pati						
5	Penyulingan minyak pati menggunakan air/wap skala kecil (100g-3kg)	per sampel	60.50	66.00	71.50	Perkhidmatan
6	Penyulingan minyak pati menggunakan air/wap skala besar (50kg-80kg)	per sampel	605.00	660.00	715.00	Perkhidmatan
7	Minyak pati (10ml)	per sampel	55.00	60.00	65.00	Produk
C Herbarium						
8	Pengecaman	per sampel	40.00	43.00	47.00	Perkhidmatan
9	Penyediaan baucer	per sampel	60.00	65.00	70.00	Perkhidmatan
10	Pengecaman & penyediaan baucer	per sampel	90.00	96.00	100.00	Perkhidmatan
11	Pengecaman Tumbuhan Secara Mikroskopi	per sampel	70.00	77.00	83.00	Perkhidmatan
D Taman Konservatori UPM						
12	Sampel tumbuhan segar (<i>pokok biasa</i> /semua bahagian) Contoh : Pokok mengkudu, pokok serai makan, pokok serai wangi.	per kg	30.00	32.00	35.00	Produk
13	Sampel tumbuhan segar (<i>pokok sukar ditemui</i> /semua bahagian) Contoh : Pokok orkid hutan, pokok tongkat ali, pokok kacip fatimah, pokok ubi jaga, pokok halia hitam	per kg	90.00	98.00	106.00	Produk
14	Sampel tumbuhan kering (<i>pokok biasa</i> /semua bahagian) Contoh : Pokok mengkudu, pokok serai makan, pokok serai wangi.	per kg	40.00	44.00	48.00	Produk
15	Sampel tumbuhan kering (<i>pokok sukar ditemui</i> /semua bahagian) Contoh : Pokok orkid hutan, pokok tongkat ali, pokok kacip fatimah, pokok ubi jaga, pokok halia hitam	per kg	120.00	130.00	142.00	Produk
16	Herba mandian segar	per set	20.00	22.00	24.00	Produk
17	Herba mandian kering / bunjut mandian	per set	30.00	33.00	36.00	Produk
E Nurseri						
18	Anak pokok (ketinggian 1')	per pokok	10.00	11.00	12.00	Produk

Bil	Nama Perkhidmatan/Sewaan/ Produk	Saiz	Kadar (RM)			Jenis Kadar
			Kategori A	Kategori B	Kategori C	
19	Anak pokok (ketinggian 2')	per pokok	20.00	22.00	23.00	Produk
20	Anak pokok (Ketinggian 3')	per pokok	30.00	34.00	36.00	Produk
21	Tanah campuran	per 10 kg	10.00	11.00	12.00	Produk
22	Kompos	per 10 kg	10.00	11.00	12.00	Produk
F	Lain-Lain Produk					
23	Botol EO 10 ml	per unit	8.00	9.00	10.00	Produk
24	Botol EO 100 ml	per unit	13.00	14.00	16.00	Produk
25	Botol EO 500ml	per unit	19.00	20.00	22.00	Produk
26	Sampling tube 15ml	per unit	3.00	4.00	5.00	Produk
27	Sampling tube 50ml	per unit	6.00	7.00	8.00	Produk
G	Lain-lain					
28	Sewa ruang di ladang/Pondok Damai	Hari	100.00	150.00	250.00	Perkhidmatan
29	Rumah teduhan berjaring	M ² /bulan	1.20	1.20	1.20	Perkhidmatan
30	Plot ladang (Pengairan)	M ² /bulan	0.40	0.40	0.40	Perkhidmatan
31	Plot ladang (Tanpa Pengairan)	M ² /bulan	0.20	0.20	0.20	Perkhidmatan
32	Auger (post - hole digger)	Jam Hari	60.00 250.00	60.00 250.00	60.00 250.00	Perkhidmatan
33	Bajak piring	Jam Hari	50.00 250.00	50.00 250.00	50.00 250.00	Perkhidmatan
34	Bajak putar	Jam Hari	40.00 250.00	40.00 250.00	40.00 250.00	Perkhidmatan
35	Broadcaster/Bucket	Jam Hari	60.00 250.00	60.00 250.00	60.00 250.00	Perkhidmatan
36	Pembatas	Jam Hari	60.00 250.00	60.00 250.00	60.00 250.00	Perkhidmatan
37	Treler	Jam Hari	60.00 250.00	60.00 250.00	60.00 250.00	Perkhidmatan
38	Alat perladangan	Lum sum	50.00	50.00	50.00	Perkhidmatan
39	Pam air (Tanpa bahan api)	lebih 5 kaki	80.00	80.00	80.00	Perkhidmatan
40	Pemasangan sistem pengairan	M ²	15.00	15.00	15.00	Perkhidmatan

JADUAL 8: SENARAI HARGA PERKHIDMATAN, SEWAAN DAN PRODUK DI UNIT PERUBATAN KOMPARATIF & TEKNOLOGI (COMeT)

Petunjuk:

Kategori A : Kakitangan Universiti / Pelajar / Persatuan UPM / Anak Syarikat UPM

Kategori B : Kerajaan / Badan Berkanun / Agensi Kerajaan

Kategori C : Badan Perniagaan Kerajaan / Swasta / Persendirian / Koperasi / Orang Awam

Bil	Nama Perkhidmatan/ Sewaan/ Produk	Saiz	Kadar (RM)			Jenis Kadar
			Kategori A	Kategori B	Kategori C	
1	Bleeding orbital sinus rat	Per animal	1.10	1.20	1.30	Perkhidmatan
2	Bleeding orbital sinus mouse	Per animal	1.10	1.20	1.30	Perkhidmatan
3	Cardiac puncture rat bleeding	Per animal	3.30	3.60	4.00	Perkhidmatan
4	Cardiac puncture mouse bleeding	Per animal	2.20	2.40	3.00	Perkhidmatan
5	Intravenous bleeding via tail rat	Per animal	3.30	3.60	4.00	Perkhidmatan
6	Intravenous bleeding via tail mouse	Per animal	1.10	1.20	1.30	Perkhidmatan
7	Submandibular bleeding rat	Per animal	2.20	2.40	3.00	Perkhidmatan
8	Submandibular bleeding mouse	Per animal	1.10	1.20	1.30	Perkhidmatan
9	Oral gavage rat	Per animal	2.20	2.40	3.00	Perkhidmatan
10	Oral gavage mouse	Per animal	1.10	1.20	1.30	Perkhidmatan
11	Saphenous vein bleeding rat	Per animal	5.50	6.00	6.50	Perkhidmatan
12	Saphenous vein bleeding mouse	Per animal	3.30	3.60	4.00	Perkhidmatan
13	Post mortem rat & mouse	Per animal	9.00	10.00	10.40	Perkhidmatan
14	Harvest 1 organ - except brain, reproductive organ, bone, intestine (rat, mouse)	Per organ	1.10	1.20	1.30	Perkhidmatan
15	Harvest 1 organ – either brain, reproductive organ, bone, intestine (rat, mouse)	Per organ	3.30	3.60	4.00	Perkhidmatan
16	Euthanasia using chamber (rat, mouse) per procedure (CO2 excluded)	Per animal	5.50	6.00	6.50	Perkhidmatan
17	Euthanasia (rat) by cervical dislocation – exclusion of drug price	Per animal weight less than 150 g	3.30	3.60	3.90	Perkhidmatan
18	Euthanasia (mouse) by cervical dislocation – exclusion of drug price	Per animal	2.20	2.40	3.00	Perkhidmatan
19	Injection for anesthesia procedure only (rat) – exclusion of drug price	Per animal	3.30	3.60	4.00	Perkhidmatan
20	Injection for anesthesia procedure only (mouse) – exclusion of drug price	Per animal	2.20	2.40	3.00	Perkhidmatan
21	Cervical dislocation for mouse and rat (below 150g)	Per animal	1.10	1.20	1.30	Perkhidmatan
22	Anesthesia procedure using Isoflurane gas (rat) for 1 hour – gas price exclusion	Per animal	33.00	36.00	40.00	Perkhidmatan
23	Processing IACUC application	Per project	180.00	190.00	210.00	Perkhidmatan
24	Procedure for wound establishment (rat and mouse)	Per animal	9.00	10.00	10.40	Perkhidmatan
25	Procedure for ovariectomy (rat)	Per animal	18.00	19.00	21.00	Perkhidmatan
26	Procedure for ovariectomy (mouse)	Per animal	18.00	19.00	21.00	Perkhidmatan
27	Procedure for daily wound treatment (rat and mouse)	Per animal	2.20	2.40	2.60	Perkhidmatan
28	Weighing animal (rat and mouse)	Per animal	1.10	1.20	1.30	Perkhidmatan
29	Urine collection in metabolic cage	Per animal	2.20	2.40	3.00	Perkhidmatan
30	Pairing male and females for breeding	Per animal	9.00	9.60	10.00	Perkhidmatan

Bil	Nama Perkhidmatan/ Sewaan/ Produk	Saiz	Kadar (RM)			Jenis Kadar
			Kategori A	Kategori B	Kategori C	
31	Sampling for ectoparasites and endoparasite	Per animal	18.00	19.00	21.00	Perkhidmatan
32	Post mortem / necropsy (rabbit)	Per animal	18.00	19.00	21.00	Perkhidmatan
33	Intravenous bleeding via ear vein (rabbit)	Per animal	6.60	7.20	8.00	Perkhidmatan
34	OptiRat IVC Cage Rental (diabetes) *including good quality of pallet (Altromin), bedding (Corncob Biocob) & water (UV treated RO water)	cage/month (maximum 5 rats per cage)	420.00	460.00	490.00	Sewaan
35	OptiMice IVC Cage Rental (diabetes) *including good quality of pallet (Altromin), bedding (Corncob Biocob) & water (UV treated RO water)	cage/month (maximum 5 mouse per cage)	350.00	380.00	420.00	Sewaan
36	Conventional Rat Cage Rental (non-diabetes) *including good quality of pallet (Altromin), bedding (Corncob Biocob) & water (UV treated RO water)	cage/month (maximum 3 rats per cage)	240.00	260.00	290.00	Sewaan
37	Conventional Rat Cage Rental (diabetes) *including good quality of pallet (Altromin), bedding (Corncob Biocob) & water (UV treated RO water)	cage/month (maximum 3 rats per cage)	280.00	300.00	330.00	Sewaan
38	Conventional Mouse Cage Rental (non-diabetes) *including good quality of pallet (Altromin), bedding (Corncob Biocob) & water (UV treated RO water)	cage/month (maximum 5 mouse per cage)	150.00	170.00	180.00	Sewaan
39	Conventional Mouse Cage Rental (diabetes) *including good quality of pallet (Altromin), bedding (Corncob Biocob) & water (UV treated RO water)	cage/month (maximum 5 mouse per cage)	170.00	180.00	200.00	Sewaan
40	Procedure Room (SPF/Conventional)	per project	250.00	280.00	300.00	Sewaan
41	Bedding (corncob) Catatan: Jenama Biocob, dari Singapura	Per kg	11.00	12.00	13.00	Produk
42	Bedding (corncob): already autoclaved Catatan: Jenama Biocob, dari Singapura	Per kg	21.00	23.00	25.00	Produk
43	Pallet (gamma Irradiated) Catatan: Jenama Altromin, dari Jerman	Per kg	19.00	20.00	22.00	Produk
44	RO Water (treated with UV light)	Per liter	2.00	3.00	4.00	Produk
45	Latex glove	Per kotak	33.00	36.00	39.00	Produk
46	Surgical mask	Per kotak	20.00	22.00	23.00	Produk
47	Disposable lab Coat (isolation gown)	Per unit	7.00	8.00	9.00	Produk
48	PPE for visitor	Per set	15.00	17.00	18.00	Produk
49	Drug: Ketamine	Per 0.1ml	1.00	2.00	3.00	Produk
50	Drug: Xylazine	Per 0.1ml	1.00	2.00	3.00	Produk
51	Drug: Pentobarbital	Per 0.1ml	1.00	2.00	3.00	Produk
52	Rat: Sprague Dawley (SPF)	Per animal	330.00	360.00	390.00	Perkhidmatan
53	Mice: Balb/C (SPF)	Per animal	230.00	250.00	270.00	Perkhidmatan
54	Mice: NCr Nude (SPF)	Per animal	330.00	360.00	390.00	Perkhidmatan
55	Rat: Sprague Dawley (Conventional)	Per animal	31.00	34.00	36.00	Perkhidmatan

Bil	Nama Perkhidmatan/ Sewaan/ Produk	Saiz	Kadar (RM)			Jenis Kadar
			Kategori A	Kategori B	Kategori C	
56	Mice: Balb/C (Conventional)	Per animal	26.00	29.00	31.00	Perkhidmatan
57	Transport box (to transfer animal)	Per box	130.00	140.00	160.00	Produk
58	Carbon dioxide (for euthanasia using chamber)	Per procedure	5.00	6.00	7.00	Produk
59	Oxygen (for euthanasia using chamber)	Per procedure	5.00	6.00	7.00	Produk
60	Isoflurane (for anesthesia)	Per hour	15.00	17.00	18.00	Produk
61	Imaging System	Per hour	77.00	84.00	91.00	Perkhidmatan
62	Khidmat autoklav makanan – SPF	Per kg	3.30	3.60	3.90	Perkhidmatan
63	Khidmat autoklav alas sangkar – SPF	Per kg	3.30	3.60	3.90	Perkhidmatan
64	Sewa sangkar Tikus – SPF	Per month	385.00	420.00	455.00	Sewaan
65	Sewa sangkar Mencit – SPF	Per month	330.00	360.00	390.00	Sewaan