

**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

Bil	Nama Perkhidmatan/Sewaan/Produk	Saiz	Kadar (RM)			Jenis Kadar
			Kategori A	Kategori B	Kategori C	
28	Bioanalyzer Access Fee	Per chip per run	55.00	60.00	65.00	Perkhidmatan
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

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