

PERKARA : KADAR CAJ PERKHIDMATAN LABORATORI BIOUBATAN MOLEKUL (MOLEMED), INSTITUT BIOSAINS

KEPUTUSAN JAWATANKUASA TETAP : BIL. 3 (2014) 25 SEPTEMBER 2014
KEWANGAN (JKTK)

MINIT : Minit 11/3(2014)

Bil	Jenis Perkhidmatan	Jenis Analisis / Catatan	Unit	UPM (RM)	Institusi Kerajaan (RM)	Swasta (RM)
1	High pressure homogenizer	Preparation of nanoemulsion	Hour	110.00	121.00	133.00
2	Zeta sizer	Measurement of partical size and zeta potential	Sample	110.00	121.00	133.00
3	Chemistry analyzer	Biochemistry analysis (Lipid profile, toxicity test)	Sample	7.00	8.00	9.00
4	Freeze dryer (pilot scale)	Freeze dryer	hour	27.00	29.00	32.00
5	DNA sequencer	Multiplex gene expression analysis	row (8 wells)	220.00	242.00	266.00
6	GenomeLab genetic analysis system (GeXP)	Multiplex gene expression analysis	row (8 wells)	220.00	242.00	266.00
7	Flow cytometer	Flow cytometric analyses (Including sheath fluid, cleaning solution)	hour	175.00	193.00	212.00

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		Flow cytometric analyses (Excluding sheath fluid, cleaning solution)	hour	117.00	129.00	142.00
8	Densitometer	Gel scanning	gel	22.00	25.00	27.00
9	Flourescence microscope	Slide observation	slide	22.00	25.00	27.00
10	Multimode microplate reader	Absorbance, fluorecence and luminescence readings	1. plate for endpoint reading 2. hour for kinetic reading	22.00 61.00	25.00 67.00	27.00 73.00
11	PCR thermal cycler	Amplification of PCR products	hour	33.00	36.00	40.00
12	Real-Time PCR (RT-PCR)	Gene expression analysis	hour	99.00	109.00	120.00
13	Nanodrop	Measurement of RNA concentration and purity	sample	22.00	24.00	26.00
14	Transblotter	Western blot	gel	22.00	25.00	27.00
15	GCMS-QQQ	GCMS analysis (full screening and SRM)	sample	321.00	353.00	388.00
16	Solvent extraction	1. Alcohol (methanol, ethanol, butanol etc.) 2. Water	sample	319.00	351.00	387.00

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		3. Other (Acetone, Chloroform, DCM, Petroleum ether, hexane, etc.) 4. Validated phenolic extraction (ISO 17025 accredited)				
17	Supercritical fluid extraction	Supercritical carbon dioxide fluid extraction (1 L capacity)	hour	244.00	269.00	296.00
18	Near critical fluid extraction (subcritical water extraction system)	Near critical/ subcritical water extraction (500 mL capacity)	hour	238.00	262.00	288.00
19	Phenolic content determination	Total phenolic content (standard: gallic acid)	sample	362.00	398.00	438.00
20	Phenolic content determination	Total flavonoid content (standard: rutin)	sample	186.00	205.00	225.00
21	In-vitro antioxidant activity test	DPPH· Scavenging activity (ISO 17025 accredited)	sample	391.00	430.00	473.00
22	In-vitro antioxidant activity test	ABTS cation radical scavenging activity	sample	353.00	389.00	428.00

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23	In-vitro antioxidant activity test	Ferric reducing power	sample	361.00	397.00	436.00
24	In-vitro antioxidant activity test	β -carotene bleaching activity	sample	431.00	474.00	521.00
25	In-vitro antioxidant activity test	Gavinoxyl radical scavenging activity (ESR)	sample	334.00	367.00	404.00
26	In-vitro antioxidant activity test	Iron chelating activity	sample	235.00	258.00	284.00
27	In-vitro antioxidant activity test	Hydroxyl radical scavenging activity (ESR)	sample	466.00	512.00	564.00
28	In-vitro antioxidant activity test	Electron spin resonance spectrometer measurement (ESR)	sample	74.00	81.00	89.00
29	Proximate analysis	Fat, protein, carbohydrate, ash and moisture	sample	220.00	242.00	266.00
30	Development & characterization of nanoemulsion	1. Preparation of nanoemulsion by high pressure homogenizer 2. Characterization of nanoemulsion by zeta sizer	sample	456.00	504.00	555.00

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31	Cell culture	Provide training/analysis on the cell culture techniques/selected assays	training package	825.00	908.00	999.00
32	Cell cycle	Analysis of cell cycle by flow cytometer	sample	120.00	132.00	145.00
33	Annexin V-FITC	Analysis of apoptosis (Annexin V-FITC method) by flow cytometer	sample	127.00	140.00	154.00
34	Mitochondrial membrane potential (MMP)	Analysis of mitochondrial membrane potential (MMP) by flow cytometer	sample	116.00	128.00	141.00
35	Reactive oxygen species	Analysis of reactive oxygen species by flow cytometer	sample	117.00	129.00	142.00
36	Antioxidant genes	Analysis of multiplex gene expression on 5 of antioxidant genes by GeXP	sample	658.00	724.00	796.00
37	Apoptosis genes	Analysis of multiplex gene expression on 10 of apoptosis genes by GeXP	sample	703.00	773.00	851.00

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38	Cardiovascular disease (CVD) genes	Analysis of multiplex gene expression on 10 of CVD genes (cholesterol metabolism) by GeXP	sample	703.00	773.00	851.00
39	Diabetic genes	Analysis of multiplex gene expression on 10 of diabetic genes by GeXP	sample	703.00	773.00	851.00
40	Anti-aging genes	Analysis of multiplex gene expression on 10 of anti-aging genes related to Alzheimer's disease by GeXP	sample	703.00	773.00	851.00
41	Halal verification genes	Analysis of multiplex gene expression on 5 of Halal-related genes by GeXP	sample	658.00	724.00	796.00
42	RNA extraction	RNA extraction	sample	44.00	48.00	53.00

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