

PERKARA : KADAR PERKHIDMATAN PERALATAN INSTITUT PENYELIDIKAN  
PRODUK HALAL, UNIVERSITI PUTRA MALAYSIA

KEPUTUSAN : BIL. 3 (2015) 29 SEPTEMBER 2015  
JAWATANKUASA TETAP  
KEWANGAN (JKTK)

MINIT : MINIT 9/3 (2015)

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Bil	Perkhidmatan Peralatan	Kadar Caj	Kadar (RM)		
			Agensi Luar	UPM (Lain-Lain)	UPM (Penyelidik Bersama)
1	GCMS	suntikan	185.00 – 223.00	162.00 – 195.00	143.00 – 172.00
2	DMA	sampel	103.00 – 123.00	90.00 – 108.00	79.00 – 95.00
3	FTIR (ATR)	sampel	113.00 – 136.00	99.00 – 119.00	87.00 – 105.00
4	FTIR (KBr)	sampel	112.00 – 134.00	98.00 – 117.00	86.00 – 103.00
5	GC-TOF	suntikan	343.00 – 412.00	300.00 – 360.00	265.00 – 318.00
6	LCTOF	suntikan	527.00 – 632.00	461.00 – 553.00	407.00 – 488.00
7	TA	sampel	107.00 – 128.00	93.00 – 112.00	82.00 – 99.00
8	GCFID	suntikan	160.00 – 192.00	140.00 – 168.00	123.00 – 148.00
9	HPLC	suntikan	112.00 – 134.00	98.00 – 118.00	86.00 – 104.00
10	ENOSE	sampel	110.00 – 132.00	96.00 – 116.00	85.00 – 102.00
11	PCR	batch	85.00 – 102.00	74.00 – 89.00	66.00 – 79.00
12	RT PCR	batch	128.00 – 153.00	112.00 – 134.00	98.00 – 118.00
13	FL UV VIS	sampel	83.00 – 99.00	72.00 – 87.00	64.00 – 77.00
14	DSC	sampel	137.00 – 164.00	120.00 – 140.00	106.00 – 127.00

Bil	Perkhidmatan Peralatan	Kadar Caj	Kadar (RM)		
			Agensi Luar	UPM (Lain-Lain)	UPM (Penyelidik Bersama)
15	MICROPLATE READER	batch	86.00 – 103.00	75.00 – 90.00	66.00 – 80.00
16	BIOPHOTOMETER	sampel	70.00 – 84.00	61.00 – 73.00	54.00 – 65.00
17	RHEOMETER	sampel	147.00 – 177.00	129.00 – 155.00	114.00 – 136.00
18	MOISTURE ANALYZER	sampel	74.00 – 89.00	65.00 – 78.00	57.00 – 69.00
19	KJELTEC	batch	545.00 – 654.00	477.00 – 572.00	421.00 – 505.00
20	SOXTEC (tanpa limble)	batch	145.00 – 174.00	127.00 – 152.00	112.00 – 134.00
21	ASHING FURNACE	batch	443.00 – 532.00	399.00 – 479.00	352.00 – 423.00
22	WATER ACTIVITY	sampel	197.00 – 236.00	172.00 – 207.00	152.00 – 182.00
23	FREEZE DRYER	jam	90.00 – 108.00	79.00 – 94.00	69.00 – 83.00
24	DENSITOMETER	jam	98.00 – 118.00	86.00 – 103.00	76.00 – 91.00
25	STEREOSCOPIC MICROSCOPE	jam	90.00 – 109.00	79.00 – 95.00	70.00 – 84.00
26	LCMS MS-QTRAP	jam	312.00 – 374.00	273.00 – 327.00	241.00 – 289.00
27	IRMS	jam	269.00 – 322.00	235.00 – 282.00	207.00 – 249.00
28	MICROBALANCE	jam	86.00 – 103.00	75.00 – 90.00	66.00 – 79.00
29	AUTOCLAVE	jam	83.00 – 100.00	73.00 – 87.00	64.00 – 77.00
30	GEL IMAGING SYSTEM	jam	93.00 – 111.00	81.00 – 97.00	71.00 – 86.00

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