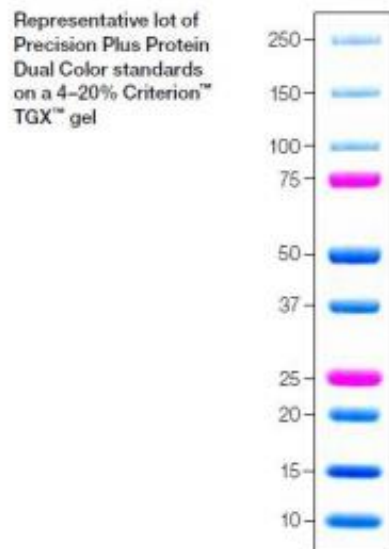


LAMPIRAN

Lampiran 1. Spesifikasi Marker Protein



Lampiran 2. Data Marker Protein

BM	log BM	run cm	band cm	Rf
250000	5,398	4,1	0,5	0,1220
150000	5,176	4,1	1,3	0,3171
100000	5	4,1	1,9	0,4634
75000	4,875	4,1	2,2	0,5366
50000	4,699	4,1	3,3	0,8049
37000	4,568	4,1	3,5	0,8537
25000	4,398	4,1	3,9	0,9512

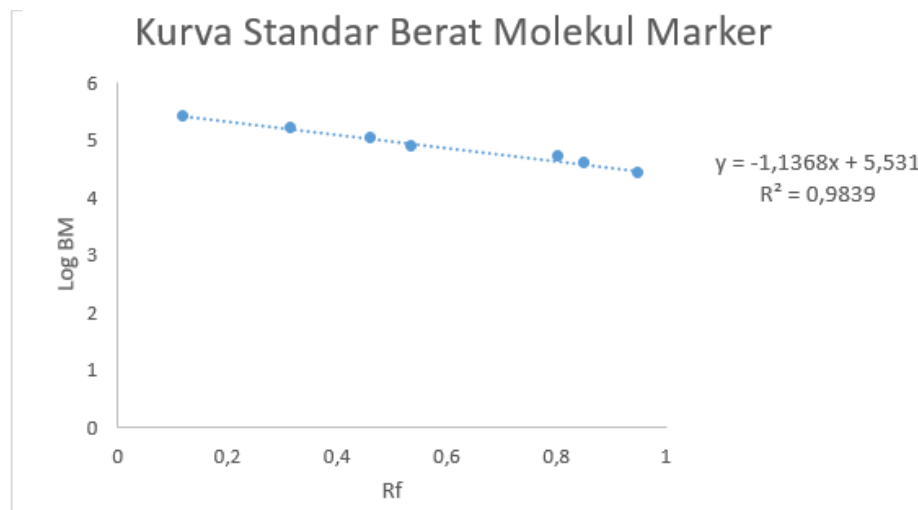
Keterangan : satuan BM dalam dalton (D)

Dimasukkan kedalam persamaan regresi linier dengan,

$$y = \log \text{ BM}$$

$$x = \text{Rf}$$

Lampiran 3. Kurva Standar Berat Molekul Marker



Persamaan regresi linier dari kurva standar berat molekul

adalah $y = -1,1368x + 5,531$

Lampiran 4. Perhitungan Berat Molekul Daging Sapi

Run (cm)	Band (cm)	Rf	$a \times Rf + b$	Bm (Da)	Bm (KDa)
4	0,4	0,1	5,417	261408,6775	261,41
4	1,6	0,4	5,076	119201,0278	119,20
4	1,8	0,45	5,019	104577,9201	104,58
4	2	0,5	4,963	91748,71703	91,75
4	2,2	0,55	4,906	80493,34956	80,49
4	2,3	0,575	4,877	75394,55809	75,39
4	2,7	0,675	4,764	58030,99272	58,03
4	2,8	0,7	4,735	54355,06257	54,36
4	3	0,75	4,678	47686,99981	47,69
4	3,1	0,775	4,650	44666,30221	44,67
4	3,5	0,875	4,536	34379,53513	34,38
4	3,7	0,925	4,479	30161,99058	30,16

Keterangan : satuan BM dalam kilo dalton (kD)

Lampiran 5. Perhitungan Berat Molekul Daging Babi

Run (cm)	Band (cm)	Rf	$a \times Rf + b$	Bm (Da)	Bm (KDa)
4	2,1	0,525	5,004	100969,5089	100,97
4	2,2	0,55	4,906	80493,34956	80,49
4	2,4	0,6	4,849	70618,74577	70,62
4	2,7	0,675	4,764	58030,99272	58,03
4	2,9	0,725	4,707	50911,98148	50,91
4	3	0,75	4,678	47686,99981	47,69
4	3,1	0,775	4,650	44666,30221	44,67
4	3,2	0,8	4,622	41836,94845	41,84
4	3,4	0,85	4,565	36704,55812	36,70
4	3,7	0,925	4,479	30161,99058	30,16

Keterangan : satuan BM dalam kilo dalton (kD)

Lampiran 6. Perhitungan Berat Molekul Sosis Referensi

Sampel	Run (cm)	Band (cm)	Rf	$a \times Rf + b$	Bm (Da)	Bm (KDa)
SS 100% (1)	4,1	1,5	0,366	5,115	130345,9558	130,35
		1,7	0,415	5,060	114721,2585	114,72
		1,9	0,463	5,004	100969,5089	100,97
		3,1	0,756	4,671	46931,91686	46,93
SS 10% B (2)	4,1	1,5	0,366	5,115	130345,9558	130,35
		1,7	0,415	5,060	114721,2585	114,72
		1,9	0,463	5,004	100969,5089	100,97
		2,1	0,512	4,949	88866,19501	88,87
		2,6	0,634	4,810	64580,65404	64,58
		2,9	0,707	4,727	53323,90564	53,32
		3,6	0,878	4,533	34106,26376	34,11
SS 25% B (3)	4,1	1,6	0,390	5,087	122284,3084	122,28
		1,8	0,439	5,032	107625,9686	107,63
		2	0,488	4,976	94724,73842	94,72
		2,1	0,512	4,949	88866,19501	88,87
		2,6	0,634	4,810	64580,65404	64,58
		2,9	0,707	4,727	53323,90564	53,32
SS 50% B (4)	4	0,4	0,1	5,417	261408,6775	261,41
		0,5	0,125	5,389	244849,9389	244,85
		1,6	0,4	5,076	119201,0278	119,20
		1,8	0,45	5,019	104577,9201	104,58

		1,9	0,475	4,991	97953,50936	97,95
		2,1	0,525	4,934	85936,96266	85,94
		2,3	0,575	4,877	75394,55809	75,39
		2,6	0,65	4,792	61955,51908	61,96
SB 25%	3,8	0,4	0,105	5,411	257832,0146	257,83
S (5)		0,5	0,132	5,381	240669,4983	240,67
		1,6	0,421	5,052	112809,94	112,81
		1,8	0,474	4,993	98291,46078	98,29
		1,9	0,5	4,963	91748,71703	91,75
		2,1	0,553	4,903	79940,78729	79,94
		2,2	0,579	4,873	74619,55102	74,62
		2,5	0,658	4,783	60688,34066	60,69
		2,7	0,711	4,723	52877,8373	52,88
		3,1	0,816	4,604	40143,06479	40,14
SB 10%	3,8	0,4	0,105	5,411	257832,0146	257,83
S (6)		0,5	0,132	5,381	240669,4983	240,67
		1,7	0,447	5,022	105300,7778	105,30
		1,9	0,5	4,963	91748,71703	91,75
		2	0,526	4,933	85641,4892	85,64
		2,2	0,579	4,873	74619,55102	74,62
		2,3	0,605	4,843	69652,52136	69,65
		2,5	0,658	4,783	60688,34066	60,69
		2,6	0,684	4,753	56648,63814	56,65
		2,8	0,737	4,693	49358,03877	49,36
		3,1	0,816	4,604	40143,06479	40,14
		3,4	0,895	4,514	32648,49436	32,65
SB 100%	3,8	0,4	0,105	5,411	257832,0146	257,83
(7)		1,6	0,421	5,052	112809,94	112,81
		1,8	0,474	4,993	98291,46078	98,29
		2	0,526	4,933	85641,4892	85,64
		2,1	0,553	4,903	79940,78729	79,94
		2,2	0,579	4,873	74619,55102	74,62
		2,5	0,658	4,783	60688,34066	60,69
		2,7	0,711	4,723	52877,8373	52,88
		3,1	0,816	4,604	40143,06479	40,14

Keterangan : satuan BM dalam kilo dalton (kD)

Lampiran 7. Perhitungan Berat Molekul Sosis Komersil

Sampel	Run (cm)	Band (cm)	Rf	$a \times Rf + b$	Bm (Da)	Bm (KDa)
SS. V	3,4	1,9	0,559	4,896	78655,55716	78,66
	3,4	2,1	0,618	4,829	67430,87939	67,43
	3,4	2,3	0,676	4,762	57808,03874	57,81
	3,4	2,5	0,735	4,695	49558,44227	49,56
SS. Ch	3,3	2,1	0,636	4,808	64206,91717	64,21
	3,3	2,4	0,727	4,704	50610,00307	50,61
SS. C	3,3	1	0,303	5,187	153643,8395	153,64
	3,3	1,2	0,364	5,118	131104,6761	131,10
	3,3	2,3	0,697	4,739	54787,92448	54,79
	3,3	2,5	0,758	4,670	46750,67425	46,75
	3,3	3,2	0,970	4,429	26831,71825	26,83
SS. S	3,4	0,7	0,206	5,297	198131,2325	198,13
SS. K	0	0	0	0	0	0

Keterangan : satuan BM dalam kilo dalton (kD)

Lampiran 8. Data Pembuatan Kurva Baku

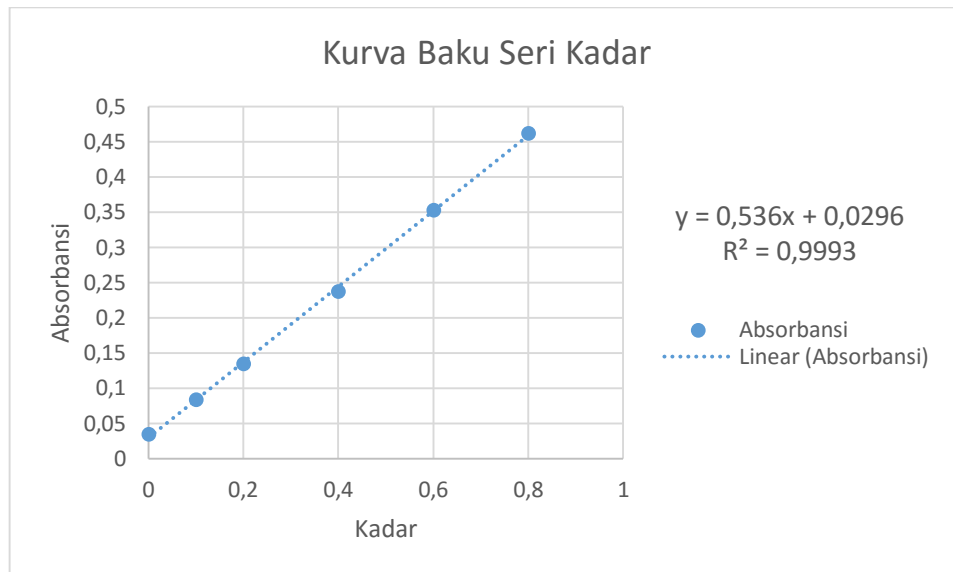
No	Konsentrasi Seri Kadar	Absorbansi
1	0	0,0342
2	0,1	0,0835
3	0,2	0,1345
4	0,4	0,2368
5	0,6	0,3527
6	0,8	0,4613

Dimasukkan kedalam persamaan regresi linier dengan,

x = konsentrasi seri kadar

y = absorbansi larutan standar

Lampiran 9. Kurva Baku Seri Kadar



Persamaan regresi linier kurva standar berat molekul adalah $y = 0,536x + 0,0296$

Lampiran 10. Data Pengukuran Kadar Protein

No	Sampel	Absorbansi			Rata-rata
		1	2	3	
1	Daging Babi	1,4719	1,4312	1,4623	1,4551
2	Daging Sapi	1,1007	1,0357	1,1067	1,0810
3	Sosis Sapi 100% (1)	1,0909	1,0899	1,0904	1,0904
4	Sosis Sapi 10% Daging Babi (2)	1,3171	1,3173	1,3175	1,3173
5	Sosis Sapi 25% Daging Babi (3)	1,5989	1,5982	1,5986	1,5986
6	Sosis Sapi 50% Daging Babi (4)	1,4519	1,4523	1,4515	1,4519
7	Sosis Sapi 75% Daging Babi (5)	2,4155	2,4156	2,4158	2,4156
8	Sosis Sapi 90% Daging Babi (6)	2,8414	2,8408	2,8402	2,8408
9	Sosis Babi 100% (7)	1,0941	1,0944	1,0947	1,0944
10	Sosis (V)	0,3889	0,3891	0,3887	0,3889
11	Sosis (Ch)	0,6212	0,6218	0,6222	0,6217
12	Sosis (C)	0,7222	0,7219	0,7223	0,7221
13	Sosis (S)	2,3644	2,3642	2,3643	2,3643
14	Sosis (K)	1,6697	1,6693	1,6696	1,6695

Lampiran 11. Perhitungan Kadar Protein

Persamaan garis linier adalah $y = 0,536x + 0,0296$

x = kadar protein

y = absorbansi sampel

$$\begin{aligned} \text{Maka, } x &= \frac{y - 0,0296}{0,536} \\ &= \frac{\text{absorbansi sampel} - 0,0296}{0,536} \end{aligned}$$

Jika nilai absorbansi diluar range 0,2 – 0,8 maka perlu dilakukan pengenceran dan hasil kadar yang didapat dikalikan dengan faktor pengenceran.