

LAMPIRAN



Lampiran 1 : Berat basah kalus yang telah ditransformasi dalam $\sqrt{y} + 0,5$

Perlakuan	Ulangan 1	Ulangan 2	Ulangan 3	Ulangan 4	Ulangan 5	Total
A ₀ B ₀	0,7071	0,7071	0,7071	0,7071	0,7071	3,5355
A ₀ B ₁	0,7071	0,7071	2	1,8166	0,7071	5,9379
A ₀ B ₂	1,5811	0,7071	2,5100	2	0,7071	7,5053
A ₀ B ₃	6,0828	0,7071	0,7071	15,5081	0,7071	23,7122
A ₁ B ₀	0,7071	0,7071	0,7071	0,7071	0,7071	3,5355
A ₁ B ₁	20,2608	13,2966	15,6971	18,0416	22,4477	89,7438
A ₁ B ₂	11,9206	26,6552	10,4163	17,4871	20,0325	86,5117
A ₁ B ₃	23,3045	24,6779	12,2801	22,4878	11,2250	93,9753
A ₂ B ₀	0,7071	2,3452	0,7071	1,3038	2,7749	7,8381
A ₂ B ₁	16,0562	8,7750	16,5167	18,2209	21,9158	81,4846
A ₂ B ₂	18,6494	29,8781	27,5971	24,9058	20,4353	121,4657
A ₂ B ₃	24,8938	24,8495	23,8558	22,7574	22,4121	118,7686
A ₃ B ₀	1,9748	0,7071	1,6125	0,7071	3,1623	8,1638
A ₃ B ₁	25,3121	31,1770	25,7624	30,8966	20,4841	133,6322
A ₃ B ₂	23,3923	24,7063	28,2312	28,4728	31,3672	136,1698
A ₃ B ₃	32,1714	30,8626	29,5229	37,0365	31,0532	160,6466

Lampiran 2. Perhitungan ANOVA Berat Basah Kalus

NAA \ BAP	A ₀	A ₁	A ₂	A ₃	A ₄
B ₀	3,5355	3,5355	7,8381	8,1638	23,0729
B ₁	5,9379	89,7438	81,4846	133,6322	310,7985
B ₂	7,5053	86,5117	121,4657	136,1698	351,6525
B ₃	23,7122	93,9753	118,7687	160,6466	397,1027
Total	40,6909	273,7663	329,5570	438,6124	

$$\begin{aligned}
 \text{FK} &= \frac{1.082,6117^2}{4 \times 4 \times 5} \\
 &= \frac{1.172.048,093}{80} \\
 &= 14.650,6012
 \end{aligned}$$

$$\begin{aligned}
 \text{JK. Total} &= (0,7071^2 + 0,7071^2 + \dots + 31,0532^2) - \text{FK} \\
 &= 25.486,6187 - 14.650,6012 \\
 &= 10.836,0175
 \end{aligned}$$

$$\begin{aligned}
 \text{JK. Perlakuan} &= \frac{(3,5355^2 + \dots + 160,6466^2)}{5} - \text{FK} \\
 &= \frac{122.880,1241}{5} - 14.650,6012 \\
 &= 9.925,4236
 \end{aligned}$$

$$\begin{aligned}
 \text{JK. BAP} &= \frac{23,0729^2 + 310,7985^2 + 351,6525^2 + 397,1027^2}{4 \times 5} - \text{FK} \\
 &= 18.923,905 - 14.650,602 \\
 &= 4.650,602
 \end{aligned}$$

$$\text{JK. NAA} = \frac{40,6909^2 + 273,7663^2 + 329,5570 + 438,6124^2}{4 \times 5} - \text{FK}$$

$$= 18.879,6195 - 14.650,6012 = 4.229,0183$$

$$\text{JK. Interaksi} = \text{JK. perlakuan} - \text{JK NAA} - \text{JK BAP}$$

$$= 9.925,4236 - 4.273,304 - 4.229,0183$$

$$= 1.423,102$$

$$\text{JK Galat} = \text{JK total} - \text{JK perlakuan}$$

$$= 10.836,018 - 9.925,424$$

$$= 910,594$$

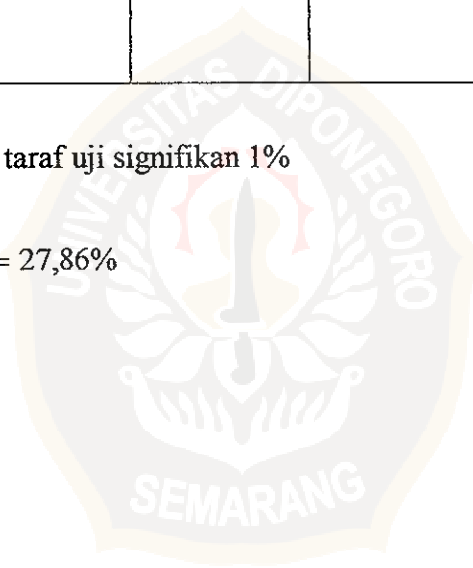


Lampiran 3. ANOVA Berat Basah Kalus (hasil transformasi dalam $\sqrt{y+0,5}$)

JK	DB	JK	KT	F hit.	F tabel 1%
Perlakuan	15	9.925,424	661,695	46,51**	2,33
- NAA	3	4.273,304	1.424,435	100,12**	4,10
- BAP	3	4.229,018	1.409,673	99,08**	4,10
- Interaksi BAP & NAA	9	1.423,102	158,122	11,11**	2,70
Galat	64	910,594	14,228		
Jumlah	79				

** : Berbeda nyata pada taraf uji signifikan 1%

$$KK = \frac{\sqrt{14,228}}{13,53} \times 100\% = 27,86\%$$

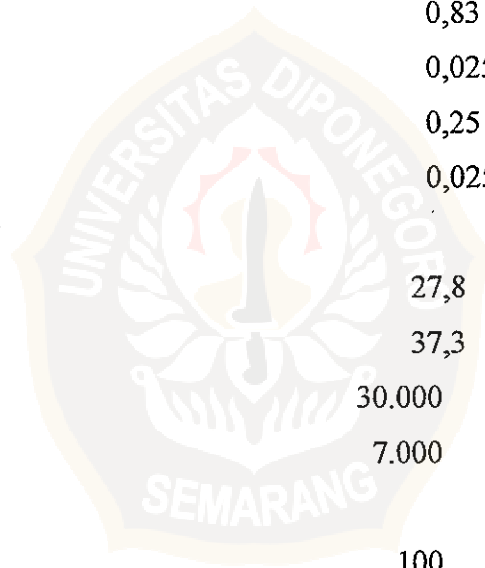


Lampiran 4. Selisih rerata antar perlakuan

Berat basah kalus	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
DMR	5%	4,77	5,03	5,20	5,30	5,40	5,47	5,53	5,62	5,62	5,69	5,69	5,74	5,74	5,79		
	1%	6,34	6,61	6,80	6,95	7,04	7,14	7,20	7,27	7,32	7,41	7,41	7,49	7,49	7,54		
		A3B3	A3B2	A3B1	A2B2	A2B3	A1B3	A1B1	A1B2	A2B1	A0B3	A3B0	A2B0	A0B2	A0B1	A1B0	
Rerata		32,13	27,23	26,73	24,29	23,75	18,80	17,95	17,30	16,30	4,74	1,63	1,57	1,50	1,19	0,7071	
A ₀ B ₀		0,7071	31,42	26,52	26,02	23,58	23,04	18,09	17,24	16,59	15,59	4,03	0,92	0,86	0,79	0,48	0
A ₁ B ₀		0,7071	31,42	26,52	26,02	23,58	23,04	18,09	17,24	16,59	15,59	4,03	0,92	0,86	0,79	0,48	0
A ₀ B ₁		1,19	30,94	26,04	25,54	23,10	23,56	17,61	16,76	16,11	15,11	3,55	0,44	0,38	0,31	0	
A ₀ B ₂		1,50	30,63	25,75	25,23	22,79	22,25	17,30	16,45	15,80	14,86	3,24	0,13	0,07	0		
A ₂ B ₀		1,57	30,56	25,66	25,16	22,72	22,18	17,23	16,38	15,73	14,73	3,17	0,06	0			
A ₃ B ₀		1,63	30,50	25,60	25,10	22,66	22,12	17,17	16,32	15,67	14,67	3,11	0				
A ₀ B ₃		4,74	27,39	22,49	21,99	19,55	19,01	14,06	13,21	12,56	11,56	0					
A ₂ B ₁		16,30	15,83	10,93	10,43	7,99	7,45	2,50	1,65	1,00	0						
A ₁ B ₂		17,30	14,83	9,93	9,43	6,99	6,45	1,50	0,65	0							
A ₁ B ₁		17,95	14,18	9,28	8,78	6,34	5,80	0,85	0								
A ₁ B ₃		18,80	13,33	8,43	7,93	5,49	4,89	0									
A ₂ B ₃		23,75	7,38	3,49	2,98	0,54	0										
A ₂ B ₂		24,29	7,84	2,94	2,44	0											
A ₃ B ₁		26,73	5,40	0,50	0												
A ₃ B ₂		27,23	4,90	0													
A ₃ B ₃		32,13	0														

Lampiran 5. Komposisi Medium Dasar Murashige dan Skoog (media MS)

1. Unsur makronutrien		
NH ₄ NO ₃	1650	mg/l
KNO ₃	1900	mg/l
KH ₂ P ₄	170	mg/l
CaCl ₂ .2H ₂ O	440	mg/l
MgO ₄ .7H ₂ O	370	mg/l
2. Unsur mikro		
MnSO ₄ .7H ₂ O	22,3	mg/l
ZnSO ₄ .7H ₂ O	8,6	mg/l
H ₃ BO ₃	6,2	mg/l
KI	0,83	mg/l
CuSO ₄ .H ₂ O	0,025	mg/l
Na ₂ MoO ₄ .2H ₂ O	0,25	mg/l
CoCl ₂ .6H ₂ O	0,025	mg/l
3. Sumber Besi		
FeSO ₄ .7H ₂ O	27,8	mg/l
Na ₂ EDTA	37,3	mg/l
4. Sukrosa	30.000	mg/l
5. Agar	7.000	mg/l
6. Vitamin :		
- Mio-inositol	100	mg/l
- Pyridoksin HCl	0,5	mg/l
- Asam Nikotinat	0,5	mg/l
- Thiamin HCl	0,1	mg/l
7. Asam amino		
- Glisin	2	mg/l



Lampiran 7. Berat basah kalus (mg) yang belum ditransformasi dalam $\sqrt{y + 0,5}$

Perlakuan	Ulangan 1	Ulangan 2	Ulangan 3	Ulangan 4	Ulangan 5	Total
A ₀ B ₀	0	0	0	0	0	0
A ₀ B ₁	0	0	3,5	2,5	0	6
A ₀ B ₂	2	0	5,8	3,5	0	11
A ₀ B ₃	36,5	0	0	240	0	277
A ₁ B ₀	0	0	0	0	0	0
A ₁ B ₁	410	176,3	245,9	325	503,4	1.661
A ₁ B ₂	141,6	710	108	305,3	400,8	1.666
A ₁ B ₃	542,6	608,5	150,3	505,2	125,5	1.932
A ₂ B ₀	0	5	0	1,2	7,2	13
A ₂ B ₁	257,3	76,5	272,3	331,5	479,8	1.417
A ₂ B ₂	347,3	892,2	761,1	619,8	417,1	3.038
A ₂ B ₃	619,2	617	568,6	517,4	501,8	2.824
A ₃ B ₀	3,4	0	2,1	0	9,5	15
A ₃ B ₁	640,2	971,5	663,2	954,1	419,1	3.648
A ₃ B ₂	546,7	609,9	796,5	809,9	983,4	3.746
A ₃ B ₃	1.034,5	952	871,1	1.371,2	963,8	5.193