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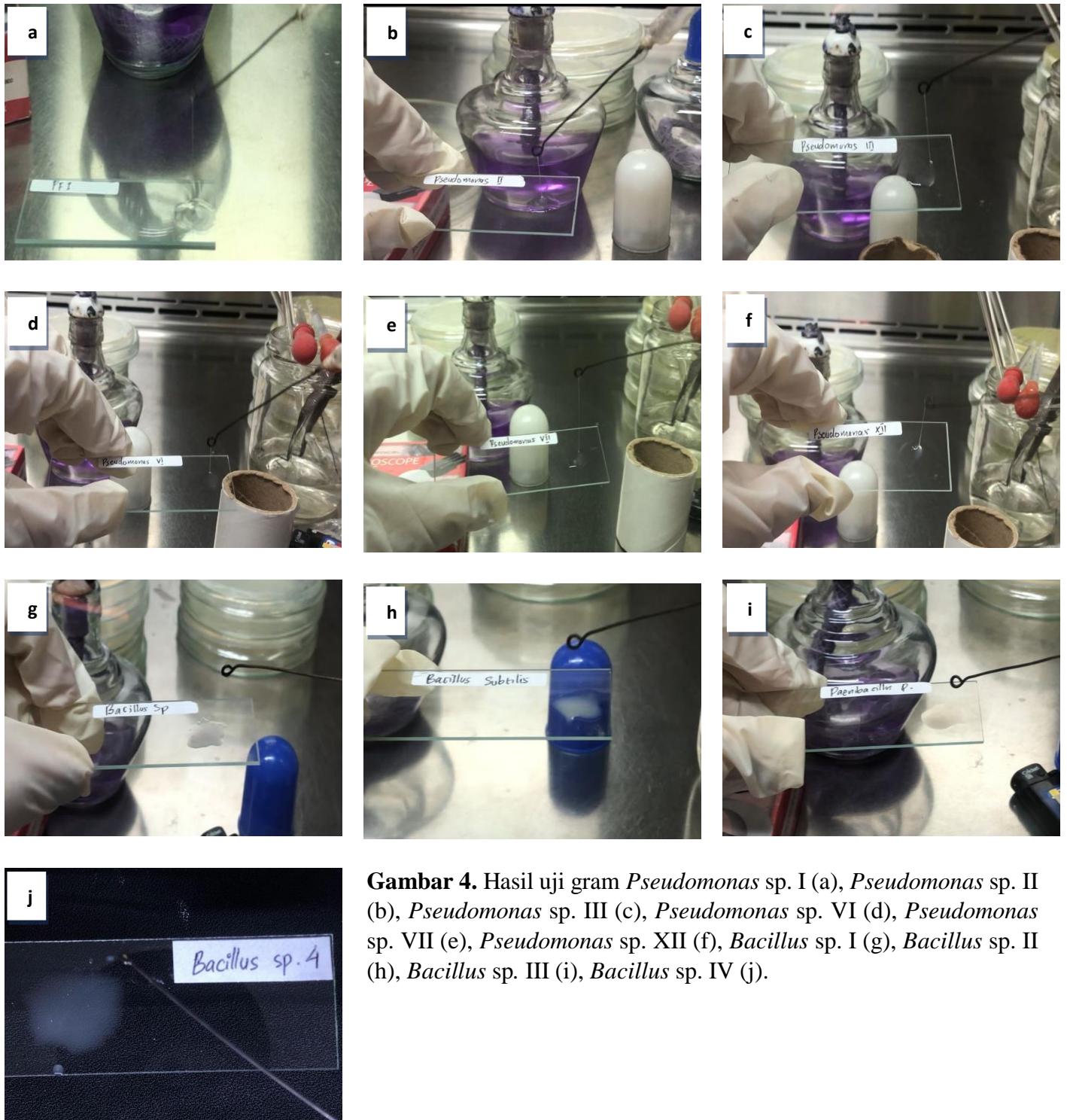
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## LAMPIRAN

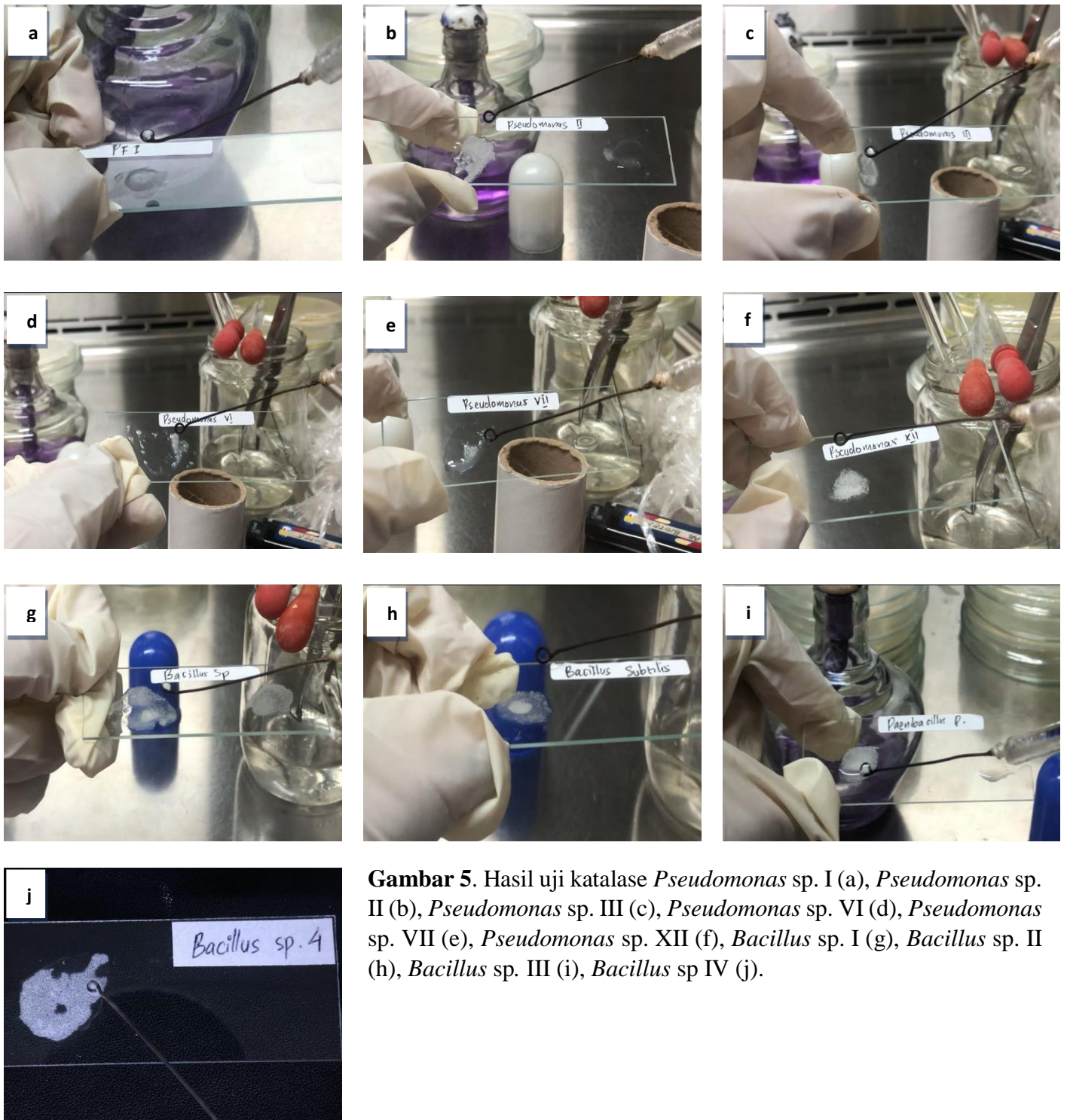
### Lampiran 1. Hasil Uji Gram pada Isolat Bakteri



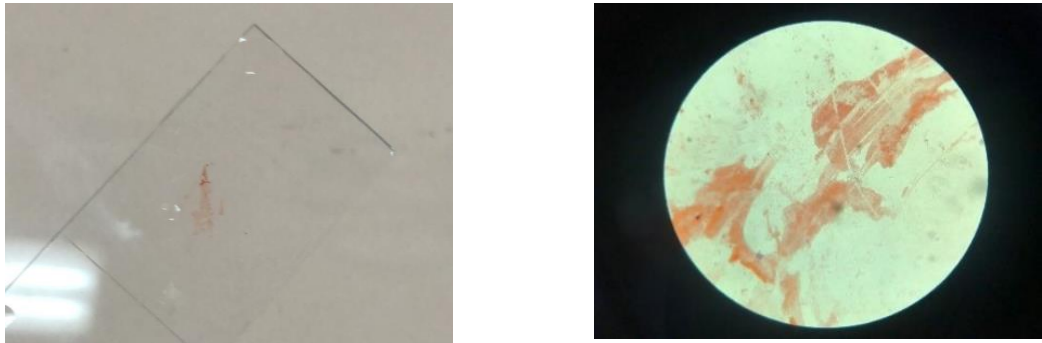
**Gambar 4.** Hasil uji gram *Pseudomonas* sp. I (a), *Pseudomonas* sp. II (b), *Pseudomonas* sp. III (c), *Pseudomonas* sp. VI (d), *Pseudomonas* sp. VII (e), *Pseudomonas* sp. XII (f), *Bacillus* sp. I (g), *Bacillus* sp. II (h), *Bacillus* sp. III (i), *Bacillus* sp. IV (j).



## Lampiran 2. Hasil Uji Katalase pada Isolat Bakteri

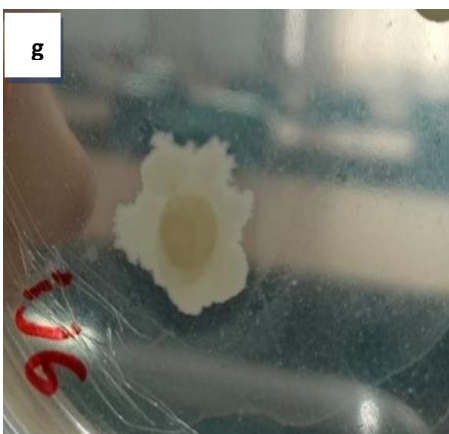
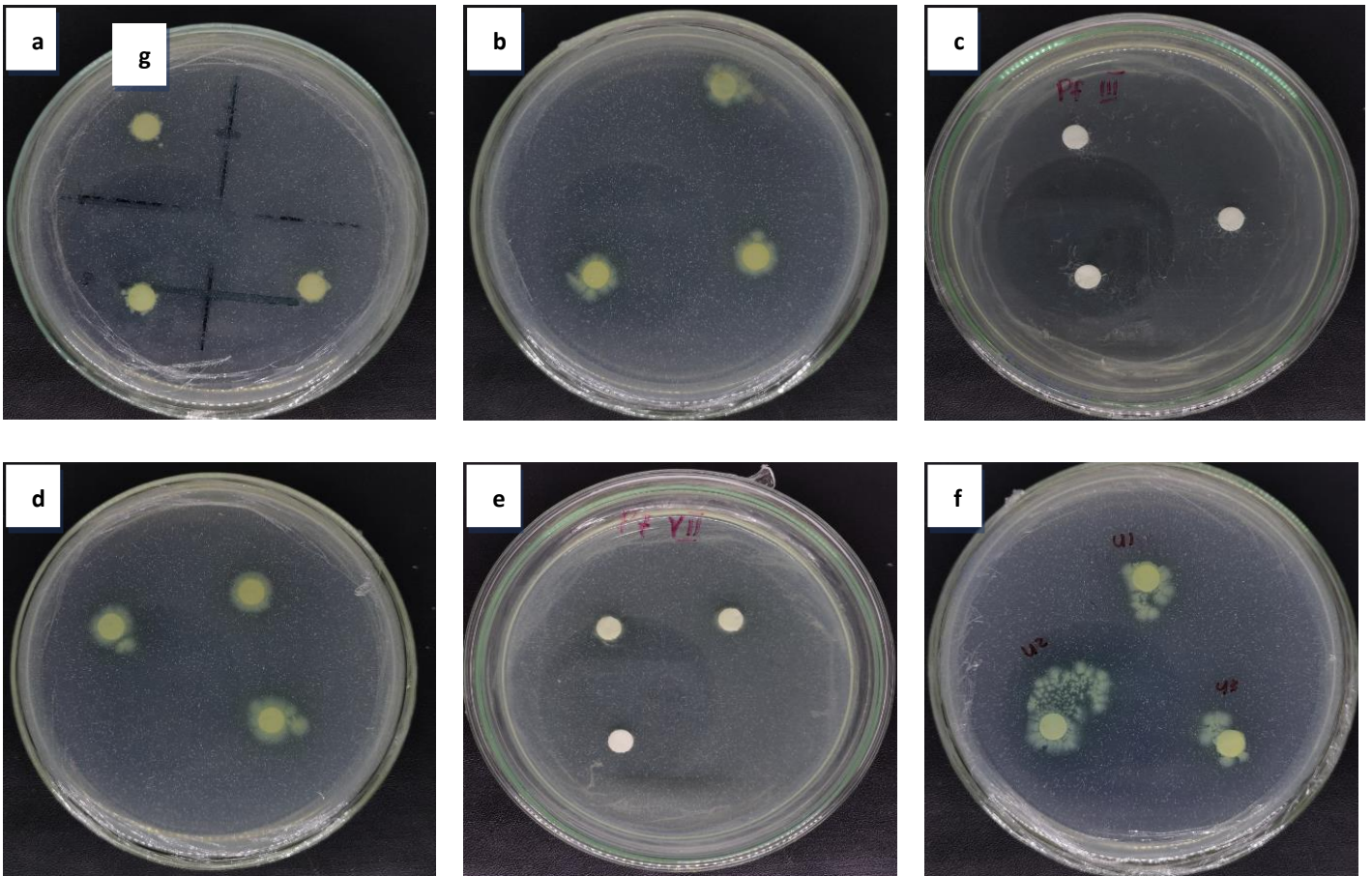


**Gambar 5.** Hasil uji katalase *Pseudomonas* sp. I (a), *Pseudomonas* sp. II (b), *Pseudomonas* sp. III (c), *Pseudomonas* sp. VI (d), *Pseudomonas* sp. VII (e), *Pseudomonas* sp. XII (f), *Bacillus* sp. I (g), *Bacillus* sp. II (h), *Bacillus* sp. III (i), *Bacillus* sp IV (j).



**Gambar 6.** Hasil Uji pewarnaan gram *Burkholderia glumae*

**Lampiran 3.** Hasil Uji Antagonis Terhadap *Burkholderia glumae*



**Gambar 7.** Hasil uji Antagonis *Pseudomonas* sp. I (a), *Pseudomonas* sp. II (b), *Pseudomonas* sp. III (c), *Pseudomonas* sp. VI (d), *Pseudomonas* sp. VII (e), *Pseudomonas* sp. XII (f), *Bacillus* sp. III (g)



#### Lampiran 4. Hasil Uji Kuantitatif Hormon

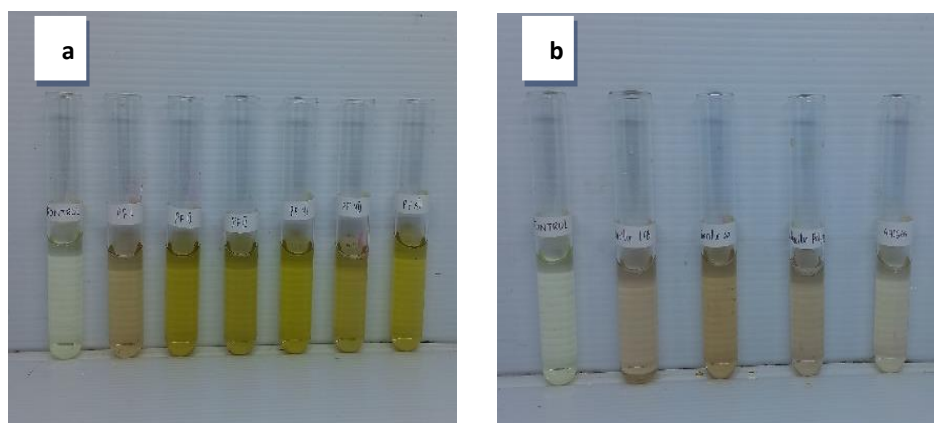
**Tabel 8.** Hasil Uji IAA pada Bakteri *Pseudomonas* sp. dan *Bacillus* sp.

<b>Isolat <i>Pseudomonas</i></b>	<b>Hasil</b>
<i>Pseudomonas</i> sp. I	0,078
<i>Pseudomonas</i> sp. II	0,094
<i>Pseudomonas</i> sp. III	0,117
<i>Pseudomonas</i> sp. VI	0,079
<i>Pseudomonas</i> sp. VII	0,097
<i>Pseudomonas</i> sp. XII	0,101
<b>Isolat <i>Bacillus</i></b>	<b>Hasil</b>
<i>Bacillus</i> sp. I	0,099
<i>Bacillus</i> sp. II	0,096
<i>Bacillus</i> sp. III	0,101
<i>Bacillus</i> sp. IV	0,056

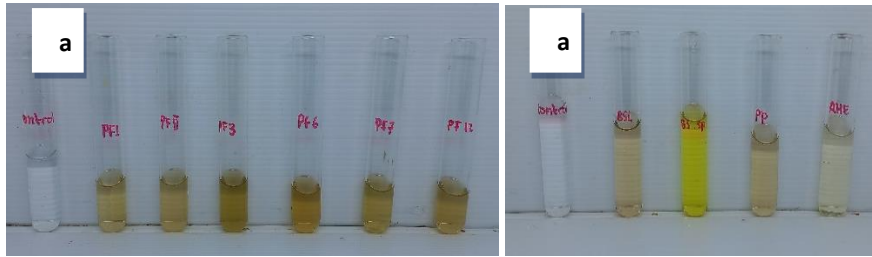
**Tabel 9.** Hasil Uji Giberelin (GA3) pada Bakteri *Pseudomonas* sp. dan *Bacillus* sp.

<b>Isolat <i>Pseudomonas</i></b>	<b>Hasil</b>
<i>Pseudomonas</i> sp. I	0,660
<i>Pseudomonas</i> sp. II	0,778
<i>Pseudomonas</i> sp. III	0,710
<i>Pseudomonas</i> sp. VI	0,756
<i>Pseudomonas</i> sp. VII	0,757
<i>Pseudomonas</i> sp. XII	0,782
<b>Isolat <i>Bacillus</i></b>	<b>Hasil</b>
<i>Bacillus</i> sp. I	0,510
<i>Bacillus</i> sp. II	0,657
<i>Bacillus</i> sp. III	0,496
<i>Bacillus</i> sp. IV	0,589

#### Lampiran 5. Hasil Uji Kualitatif Hormon IAA dan Giberelin (GA3)




**Gambar 8.** Hasil uji hormon IAA bakteri I (*Pseudomonas* sp.) (a), bakteri II (*Bacillus* sp.) (b)



**Gambar 9.** Hasil uji hormon gibberelin bakteri I (*Pseudomonas* sp.) (a), bakteri II (*Bacillus* sp.) (b)

**Lampiran 6.** Hasil Uji Nitrogen, Posfat, dan Kalium



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**FAKULTAS PETERNAKAN**  
**UNIVERSITAS HASANUDDIN**

**HASIL ANALISIS BAHAN**

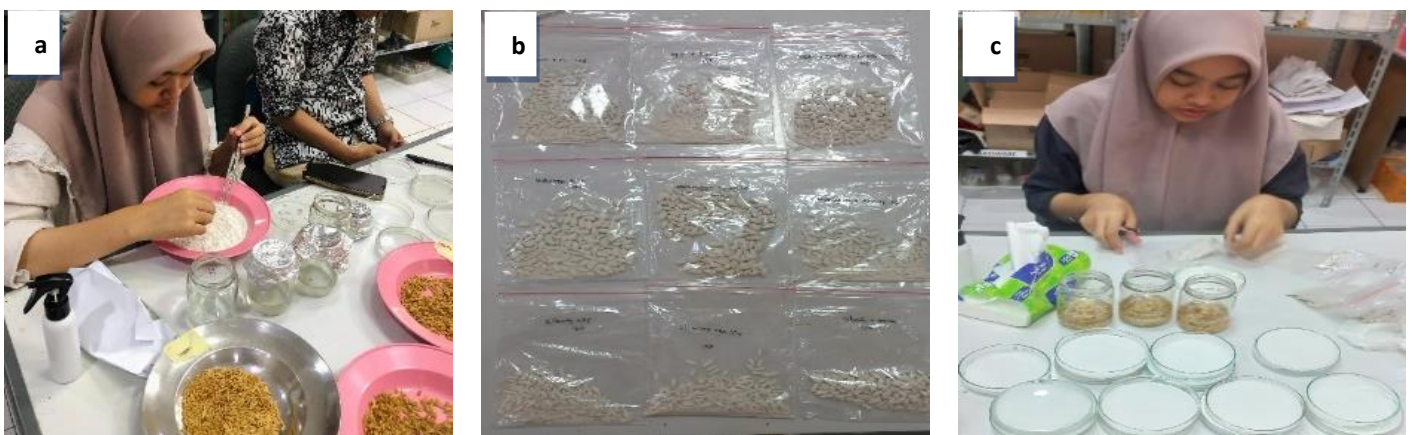
No	Kode Sampel	KOMPOSISI		
		N (%)	P (ppm)	K (ppm)
1	Pseudomonas Sp	0,132	193,410	177,982
2	Paeni Basillus Polyimixa	0,139	155,327	181,305

Ket : Hasil Analisis Dihitung Berdasarkan Contoh Asli

Makassar, 14 November 2023

  
 Muhammad Svahri  
 Nip. 19750603 2001 12 1 001

**Lampiran 7.** Dokumentasi Persiapan Penanaman Biopriming Benih



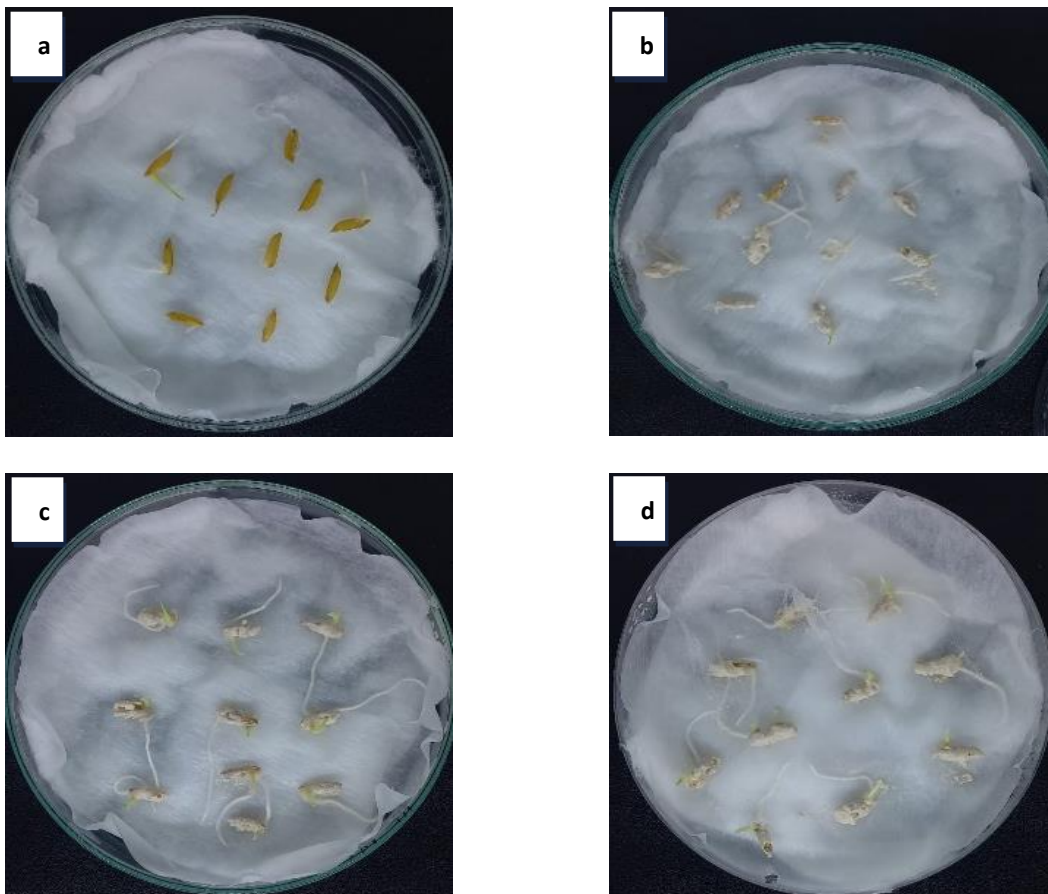
**Gambar 10.** Biopriming benih (a), Benih disimpan selama 24 jam (b), Penanaman benih (c)

**Lampiran 8. Denah Percobaan**

V1P0	V2P0	V2P2
V1P2	V3P1	V3P2
V2P3	V2P2	V1P2
V3P3	V2P0	V3P0
V2P1	V3P1	V1P0
V1P1	V1P3	V2P3
V3P0	V2P2	V3P3
V1P3	V2P1	V1P1
V2P3	V1P2	V3P3
V2P0	V1P1	V3P2
V3P0	V1P3	V2P1
V1P0	V3P2	V3P1

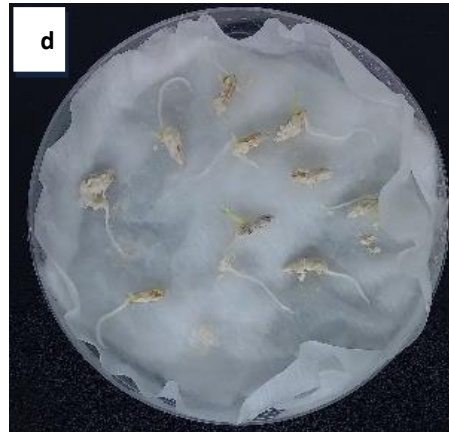
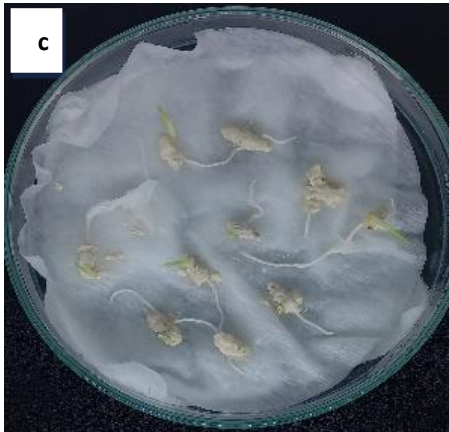
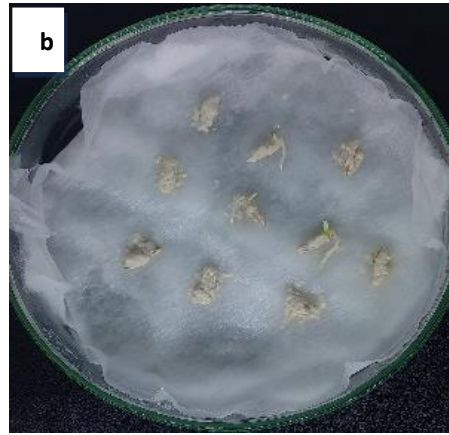
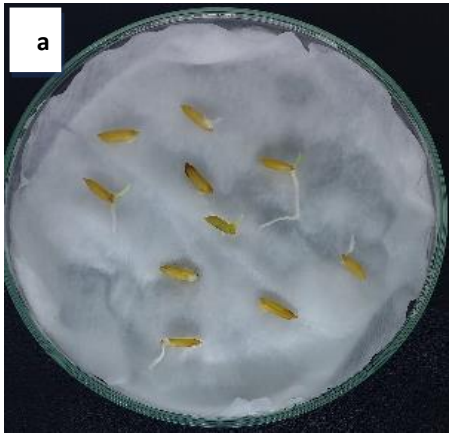
**Gambar 11. Denah penelitian**

**Lampiran 9. Hasil pertumbuhan benih padi hari ke-3**

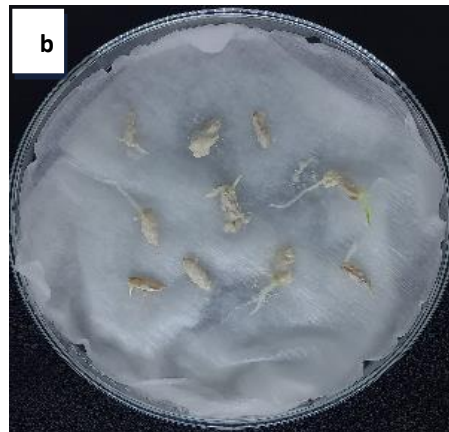
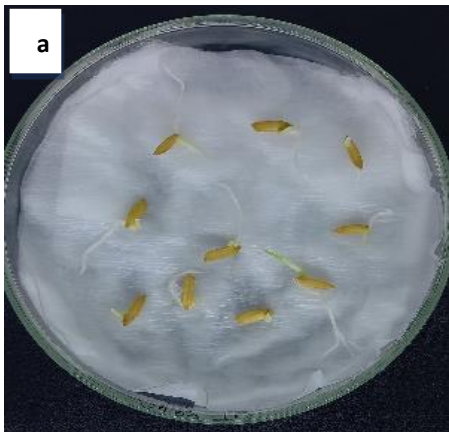


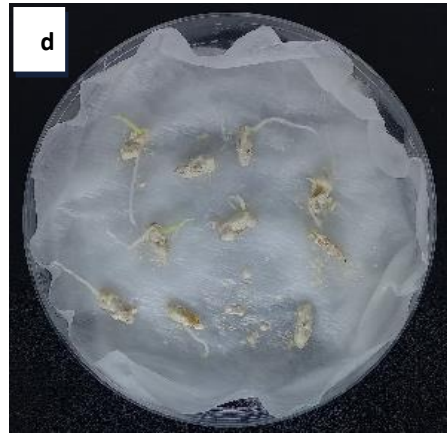
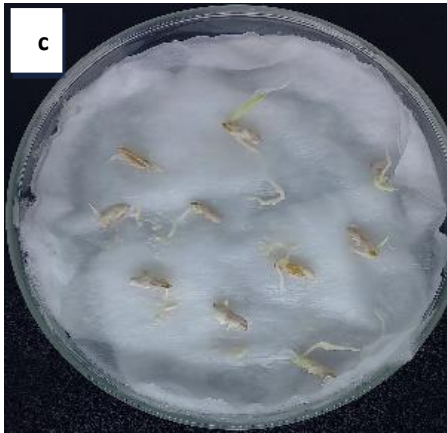
**Gambar 12. Inpadi 43 kontrol (a), *Pseudomonas* sp (b), *Bacillus* sp (c), *Pseudomonas* sp + *Bacillus* sp (d) hari ke-3**





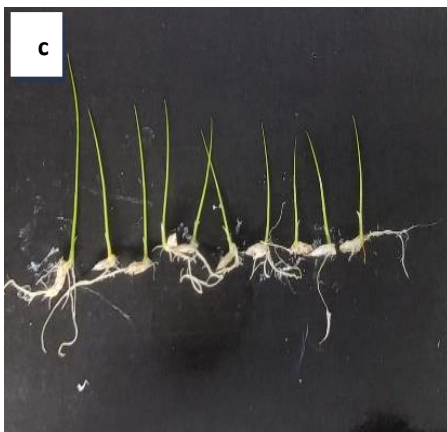
**Gambar 13.** Ciliwung kontrol (a), *Pseudomonas* sp (b), *Bacillus* sp (c), *Pseudomonas* sp + *Bacillus* sp (d) hari ke-3





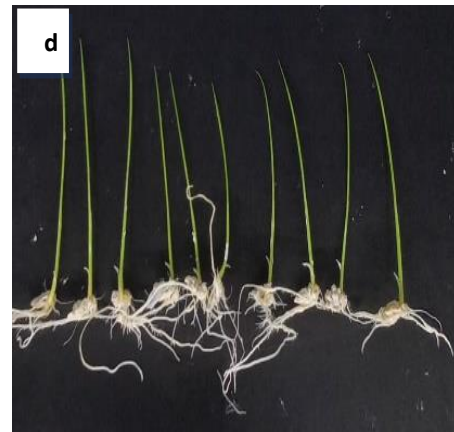
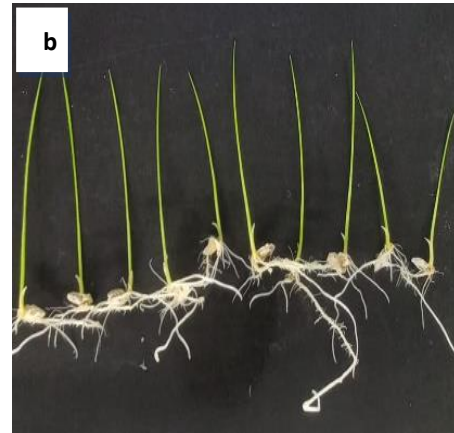
**Gambar 14.** Mekongga kontrol (a), *Pseudomonas* sp (b), *Bacillus* sp (c), *Pseudomonas* sp + *Bacillus* sp (d) hari ke-3

**Lampiran 10.** Hasil pertumbuhan benih padi hari ke-7

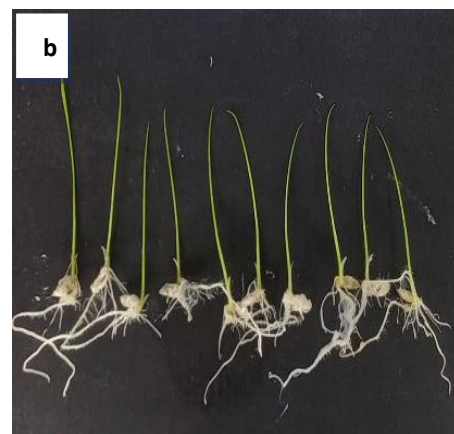


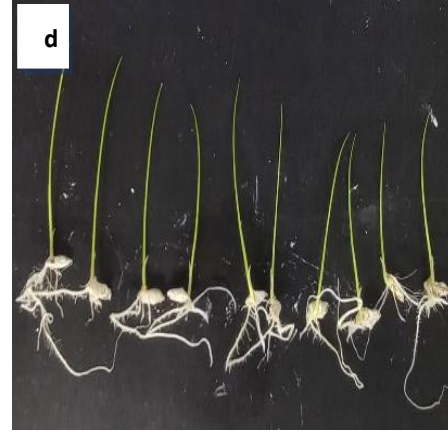
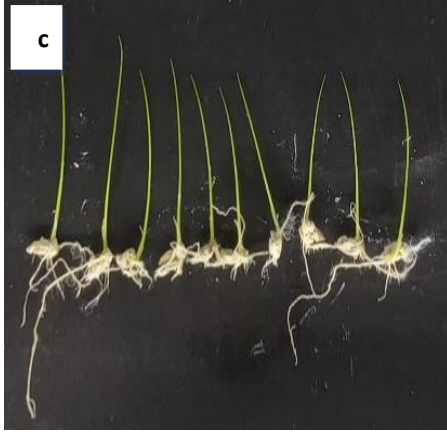
**Gambar 15.** Inpari 43 kontrol (a), *Pseudomonas* sp (b), *Bacillus* sp (c), *Pseudomonas* sp + *Bacillus* sp (d) hari ke-7





**Gambar 16.** Ciliwung kontrol (a), *Pseudomonas* sp (b), *Bacillus* sp (c), *Pseudomonas* sp + *Bacillus* sp (d) hari ke-7





**Gambar 17.** Mekongga kontrol (a), *Pseudomonas* sp (b), *Bacillus* sp (c), *Pseudomonas* sp + *Bacillus* sp (d) hari ke-7

**Lampiran 11.** Perhitungan Daya Kecambah dan Indeks Vigor

**1. Perhitungan indeks vigor**

**V1P0 :**

$$IV (\%) = \frac{\sum KN \text{ hitungan } I}{\sum \text{benih yang di tanam}} \times 100\%$$

$$IV (\%) = \frac{5}{10} \times 100\%$$

$$IV (\%) = 50\%$$

**V1P1 :**

$$IV (\%) = \frac{\sum KN \text{ hitungan } I}{\sum \text{benih yang di tanam}} \times 100\%$$

$$IV (\%) = \frac{8,3}{10} \times 100\%$$

$$IV (\%) = 83\%$$

**V1P2 :**

$$IV (\%) = \frac{\sum KN \text{ hitungan } I}{\sum \text{benih yang di tanam}} \times 100\%$$

$$IV (\%) = \frac{8,7}{10} \times 100\%$$

$$IV (\%) = 87\%$$

**V1P3 :**

$$IV (\%) = \frac{\sum KN \text{ hitungan } I}{\sum \text{benih yang di tanam}} \times 100\%$$

$$IV (\%) = \frac{7,7}{10} \times 100\%$$

$$IV (\%) = 77\%$$

**V3P0 :**

$$IV (\%) = \frac{\sum KN \text{ hitungan } I}{\sum \text{benih yang di tanam}} \times 100\%$$

$$IV (\%) = \frac{9}{10} \times 100\%$$

$$IV (\%) = 90\%$$

**V3P1 :**

$$IV (\%) = \frac{\sum KN \text{ hitungan } I}{\sum \text{benih yang di tanam}} \times 100\%$$

$$IV (\%) = \frac{9,7}{10} \times 100\%$$

$$IV (\%) = 97\%$$

**V2P0 :**

$$IV (\%) = \frac{\sum KN \text{ hitungan } I}{\sum \text{benih yang di tanam}} \times 100\%$$

$$IV (\%) = \frac{6}{10} \times 100\%$$

$$IV (\%) = 60\%$$

**V2P1 :**

$$IV (\%) = \frac{\sum KN \text{ hitungan } I}{\sum \text{benih yang di tanam}} \times 100\%$$

$$IV (\%) = \frac{9,3}{10} \times 100\%$$

$$IV (\%) = 93\%$$

**V2P2 :**

$$IV (\%) = \frac{\sum KN \text{ hitungan } I}{\sum \text{benih yang di tanam}} \times 100\%$$

$$IV (\%) = \frac{9,7}{10} \times 100\%$$

$$IV (\%) = 97\%$$

**V2P3 :**

$$IV (\%) = \frac{\sum KN \text{ hitungan } I}{\sum \text{benih yang di tanam}} \times 100\%$$

$$IV (\%) = \frac{10}{10} \times 100\%$$

$$IV (\%) = 100\%$$

**V3P2 :**

$$IV (\%) = \frac{\sum KN \text{ hitungan I}}{\sum \text{benih yang di tanam}} \times 100\%$$

$$IV (\%) = \frac{10}{10} \times 100\%$$

$$IV (\%) = 100\%$$

**V3P3 :**

$$IV (\%) = \frac{\sum KN \text{ hitungan I}}{\sum \text{benih yang di tanam}} \times 100\%$$

$$IV (\%) = \frac{10}{10} \times 100\%$$

$$IV (\%) = 100\%$$

## 2. Perhitungan daya kecambah

**V1P0 :**

$$DB (\%) = \frac{(\sum KN \text{ hitungan I} + \text{hitungan II})}{\sum \text{benih yang di tanam}} \times 100\%$$

$$DB (\%) = \frac{5+0}{10} \times 100\%$$

$$DB (\%) = 50\%$$

**V1P1 :**

$$DB (\%) = \frac{(\sum KN \text{ hitungan I} + \text{hitungan II})}{\sum \text{benih yang di tanam}} \times 100\%$$

$$DB (\%) = \frac{8+2}{10} \times 100\%$$

$$DB (\%) = 100\%$$

**V1P2 :**

$$DB (\%) = \frac{(\sum KN \text{ hitungan I} + \text{hitungan II})}{\sum \text{benih yang di tanam}} \times 100\%$$

$$DB (\%) = \frac{7+3}{10} \times 100\%$$

$$DB (\%) = 100\%$$

**V1P3 :**

$$DB (\%) = \frac{(\sum KN \text{ hitungan I} + \text{hitungan II})}{\sum \text{benih yang di tanam}} \times 100\%$$

$$DB (\%) = \frac{8+0}{10} \times 100\%$$

$$DB (\%) = 80\%$$

**V3P0 :**

$$DB (\%) = \frac{(\sum KN \text{ hitungan I} + \text{hitungan II})}{\sum \text{benih yang di tanam}} \times 100\%$$

$$DB (\%) = \frac{9+0}{10} \times 100\%$$

$$DB (\%) = 90\%$$

**V3P1 :**

$$DB (\%) = \frac{(\sum KN \text{ hitungan I} + \text{hitungan II})}{\sum \text{benih yang di tanam}} \times 100\%$$

$$DB (\%) = \frac{10+0}{10} \times 100\%$$

$$DB (\%) = 100\%$$

**V3P2 :**

$$DB (\%) = \frac{(\sum KN \text{ hitungan I} + \text{hitungan II})}{\sum \text{benih yang di tanam}} \times 100\%$$

$$DB (\%) = \frac{10+0}{10} \times 100\%$$

$$DB (\%) = 100\%$$

**V2P0 :**

$$DB (\%) = \frac{(\sum KN \text{ hitungan I} + \text{hitungan II})}{\sum \text{benih yang di tanam}} \times 100\%$$

$$DB (\%) = \frac{6+0}{10} \times 100\%$$

$$DB (\%) = 60\%$$

**V2P1 :**

$$DB (\%) = \frac{(\sum KN \text{ hitungan I} + \text{hitungan II})}{\sum \text{benih yang di tanam}} \times 100\%$$

$$DB (\%) = \frac{10+0}{10} \times 100\%$$

$$DB (\%) = 100\%$$

**V2P2 :**

$$DB (\%) = \frac{(\sum KN \text{ hitungan I} + \text{hitungan II})}{\sum \text{benih yang di tanam}} \times 100\%$$

$$DB (\%) = \frac{9+1}{10} \times 100\%$$

$$DB (\%) = 100\%$$

**V2P3 :**

$$DB (\%) = \frac{(\sum KN \text{ hitungan I} + \text{hitungan II})}{\sum \text{benih yang di tanam}} \times 100\%$$

$$DB (\%) = \frac{10+0}{10} \times 100\%$$

$$DB (\%) = 100\%$$

**V3P3 :**

$$DB (\%) = \frac{(\sum KN \text{ hitungan I} + \text{hitungan II})}{\sum \text{benih yang di tanam}} \times 100\%$$

$$DB (\%) = \frac{10+0}{10} \times 100\%$$

$$DB (\%) = 100\%$$

**Lampiran 12.** Tabel Analisis Ragam**Tabel 10.** Analisis Ragam Interaksi Biopriming Benih dengan Bakteri dan Varietas Padi Terhadap Daya Kecambah

SK	DB	JK	KT	F.HIT	F.TAB		Ket
					0.05	0.01	
Perlakuan	11	0.896	0.081	6.242	2.216	3.094	**
V	2	0.151	0.075	5.766	3.403	5.614	**
P	3	0.561	0.187	14.319	3.009	4.718	**
VP	6	0.185	0.031	2.362	2.508	3.667	TN
Galat	24	0.313	0.013				
Total	35	1.210	0.035				

Keterangan : \* = berbeda nyata; \*\* = berbeda sangat nyata; tn = tidak nyata

**Tabel 11.** Analisis Ragam Interaksi Biopriming Benih dengan Bakteri dan Varietas Padi Terhadap Indeks Vigor

SK	DB	JK	KT	F.HIT	F.TAB		Ket
					0.05	0.01	
Perlakuan	11	0.896	0.081	6.377	2.216	3.094	**
V	2	0.329	0.164	12.870	3.403	5.614	**
P	3	0.421	0.140	10.978	3.009	4.718	**
VP	6	0.147	0.024	1.913	2.508	3.667	TN
Galat	24	0.307	0.013				
Total	35	1.203	0.034				

Keterangan : \* = berbeda nyata; \*\* = berbeda sangat nyata; tn = tidak nyata

**Tabel 12.** Analisis Ragam Interaksi Biopriming Benih dengan Bakteri dan Varietas Padi Terhadap Tinggi Tanaman

SK	DB	JK	KT	F.HIT	F.TAB		Ket
					0.05	0.01	
Perlakuan	11	42.524	3.866	11.571	2.216	3.094	**
V	2	2.280	1.140	3.412	3.403	5.614	**
P	3	37.094	12.365	37.010	3.009	4.718	**
VP	6	3.149	0.525	1.571	2.508	3.667	TN
Galat	24	8.018	0.334				
Total	35	50.542	1.444				

Keterangan : \* = berbeda nyata; \*\* = berbeda sangat nyata; tn = tidak nyata

**Tabel 13.** Analisis Ragam Interaksi Biopriming Benih dengan Bakteri dan Varietas Padi Terhadap Panjang Akar

SK	DB	JK	KT	F.HIT	F.TAB		Ket
					0.05	0.01	
Perlakuan	11	81.385	7.399	15.406	2.216	3.094	**
V	2	4.433	2.216	4.615	3.403	5.614	**
P	3	72.390	24.130	50.243	3.009	4.718	**
VP	6	4.562	0.760	1.58	2.508	3.667	TN
Galat	24	11.526	0.480				
Total	35	92.912	2.655				

Keterangan : \* = berbeda nyata; \*\* = berbeda sangat nyata; tn = tidak nyata