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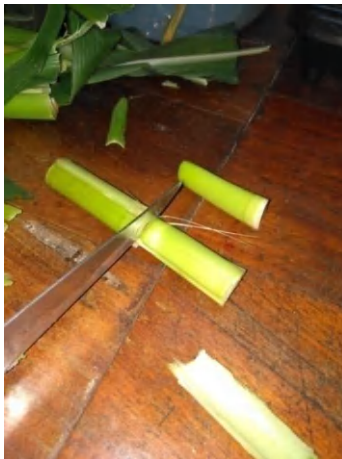


LAMPIRAN

Pembuatan Media PDA (*Potato Dextrosa Agar*)



Pengambilan Sampel Endofit

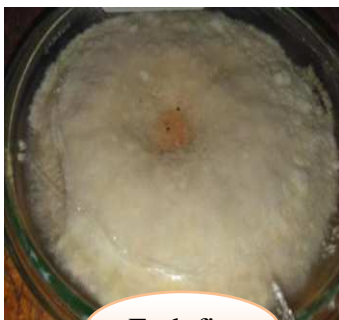




Pengambilan Sampel Patogen



Hasil Isolasi Cendawan Endofit Dan Cendawan Patogen



Endofit



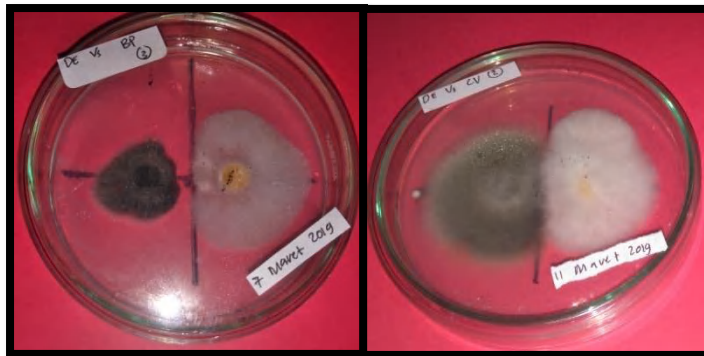
Bipolaris



Curvularia

Tabel Lampiran 1 Pengamatan Hasil Uji Antagonisme

| Hari ke- | Uji Antagonisme | | Keterangan |
|----------|-----------------|----------|---|
| 2 | AE vs BP | AE vs CV | AE vs BP = Pertumbuhan cendawan endofit lebih unggul. |
| | DE vs BP | DE vs CV | AE vs CV = Pertumbuhan patogen lebih unggul |
| | BE vs BP | BE vs CV | DE vs BP dan DE vs CV masing-masing pertumbuhan cendawan endofit lebih unggul dibanding pertumbuhan patogen |
| | | | BE vs BP dan BE vs CV masing-masing pertumbuhan patogen lebih unggul dibanding pertumbuhan cendawan endofit. |
| 4 | AE vs BP | AE vs CV | AE vs BP = Pertumbuhan cendawan endofit lebih unggul. Namun ukurannya tidak jauh berbeda |
| | DE vs BP | DE vs CV | AE vs CV = Pertumbuhan patogen ukurannya sama |



DE vs BP

Pertumbuhan cendawan endofit lebih unggul dibanding pertumbuhan patogen. Ukuran endofit jauh lebih besar.

DE vs CV

Pertumbuhan cendawan endofit lebih unggul dibanding pertumbuhan patogen. Namun ukurannya hampir sama.

BE vs BP

BE vs CV

BE vs BP dan BE vs CV



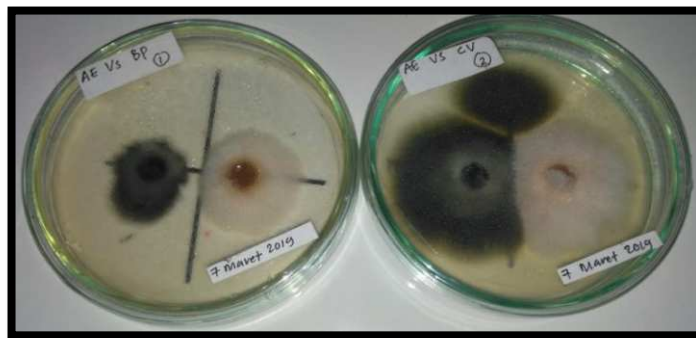
masing-masing pertumbuhan patogen jauh lebih unggul dibanding pertumbuhan cendawan endofit.

6

AE vs BP

AE vs CV

AE vs BP



Pertumbuhan cendawan endofit lebih unggul. Namun ukurannya tidak jauh berbeda

AE vs CV=

Pertumbuhan patogen tidak lebih unggul dan ukurannya hampir sama.

DE vs BP

DE vs CV

DE vs BP



Pertumbuhan cendawan endofit lebih unggul dibanding pertumbuhan patogen. Ukuran endofit jauh lebih besar.

DE vs CV

Pertumbuhan cendawan endofit lebih unggul dibanding pertumbuhan patogen. Namun ukurannya hampir sama.



Tabel Lampiran 2 Data Pengamatan Uji Antagonisme Cendawan Bipolaris vs Cendawan Endofit

| Pengamatan Hari ke | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|--------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| AE vs BP 1 | 0,1 | 1,8 | 2,05 | 2,225 | 2,55 | 2,775 | 3,1 | 3,45 | 3,775 |
| AE vs BP 2 | 0,1 | 2,325 | 3,325 | 3,55 | 3,725 | 3,85 | 3,875 | 3,885 | 3,9 |
| AE vs BP 3 | 0,1 | 1,525 | 1,725 | 1,75 | 2,1 | 2,175 | 2,375 | 2,7 | 3,05 |
| BE vs BP 1 | 0,1 | 1,55 | 1,775 | 1,8 | 2,15 | 2,35 | 2,775 | 2,825 | 2,95 |
| BE vs BP 2 | 0,1 | 2,6 | 3,35 | 3,95 | 4,375 | 4,85 | 4,925 | 5,025 | 5,35 |
| BE vs BP 3 | 0,1 | 2,4 | 3,125 | 3,6 | 4,075 | 4,275 | 4,325 | 4,7 | 4,825 |
| DE vs BP 1 | 0,1 | 1,9 | 2,3 | 2,45 | 2,7 | 2,85 | 3,175 | 3,375 | 3,75 |
| DE vs BP 2 | 0,1 | 1,85 | 2,125 | 2,375 | 2,6 | 2,875 | 3,225 | 3,575 | 3,85 |
| DE vs BP 3 | 0,1 | 2,1 | 2,3 | 3 | 3,35 | 3,45 | 3,825 | 4,125 | 4,375 |
| Kontrol BP | 0,15 | 2,975 | 3,45 | 4,25 | 5 | 5,9 | 6,15 | 7,2 | 7,5 |

Tabel Lampiran 3 Hasil Perhitungan Intensitas Penghambatan Cendawan Bipolaris vs Cendawan Endofit

| Pengamatan Hari ke | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Rata-Rata Intensitas Penghambatan |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------------------|
| AE vs BP 1 | 33% | 39% | 41% | 48% | 49% | 53% | 50% | 52% | 50% | 46% |
| AE vs BP 2 | 33% | 22% | 4% | 16% | 26% | 35% | 37% | 46% | 48% | 30% |
| AE vs BP 3 | 33% | 49% | 50% | 59% | 58% | 63% | 61% | 63% | 59% | 55% |
| BE vs BP 1 | 33% | 48% | 49% | 58% | 57% | 60% | 55% | 61% | 61% | 53% |
| BE vs BP 2 | 33% | 13% | 3% | 7% | 13% | 18% | 20% | 30% | 29% | 18% |
| BE vs BP 3 | 33% | 19% | 9% | 15% | 19% | 28% | 30% | 35% | 36% | 25% |
| DE vs BP 1 | 33% | 36% | 33% | 42% | 46% | 52% | 48% | 53% | 50% | 44% |
| DE vs BP 2 | 33% | 38% | 38% | 44% | 48% | 51% | 48% | 50% | 49% | 44% |
| DE vs BP 3 | 33% | 29% | 33% | 29% | 33% | 42% | 38% | 43% | 42% | 36% |

Keterangan:

Warna Ungu = Endofit Akar vs Bipolaris

Warna Orange = Endofit Batang vs Bipolaris

Warna Hijau Telur Asin = Endofit Daun vs



Tabel Lampiran 3 Data Pengamatan Uji Antagonisme Cendawan *Curvularia* vs Cendawan Endofit

| Pengamatan Hari Ke | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| AE vs CV 1 | 0,5 | 3,1 | 4,05 | 4,725 | 5,225 | 5,6 | 5,65 | 5,7 | 5,875 |
| AE vs CV 2 | 0,4 | 3,05 | 3,85 | 4,3 | 4,8 | 4,95 | 5,55 | 5,6 | 5,925 |
| AE vs CV 3 | 0,4 | 3,25 | 3,975 | 4,475 | 4,775 | 5,025 | 5,425 | 5,775 | 5,9 |
| BE vs CV 1 | 0,4 | 3,325 | 4,275 | 4,9 | 6,075 | 6,825 | 7,425 | 7,6 | 8,1 |
| BE vs CV 2 | 0,5 | 3,1 | 4,325 | 5,325 | 6,075 | 6,85 | 7,55 | 7,8 | 7,975 |
| BE vs CV 3 | 0,3 | 3,35 | 4,4 | 5,35 | 6,075 | 6,75 | 7,325 | 7,925 | 8,3 |
| DE vs CV 1 | 0,3 | 2,9 | 3,675 | 4,475 | 5,525 | 6,05 | 6,175 | 6,3 | 6,4 |
| DE vs CV 2 | 0,4 | 3,3 | 4,25 | 4,8 | 5,35 | 5,575 | 5,625 | 5,775 | 5,9 |
| DE vs CV 3 | 0,4 | 3,325 | 3,675 | 4,2 | 5,05 | 5,65 | 5,775 | 6,05 | 6,45 |
| Kontrol CV | 1,125 | 3,875 | 5,1 | 6,2 | 6,775 | 7,85 | 8,25 | 8,825 | 9 |

Tabel Lampiran 4 Hasil Perhitungan Penghambatan Cendawan

| Pengamatan Hari Ke | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Rata-Rata Intensitas Penghambatan |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------------------|
| AE vs CV 1 | 56% | 20% | 21% | 24% | 23% | 29% | 32% | 35% | 35% | 30% |
| AE vs CV 2 | 64% | 21% | 25% | 31% | 29% | 37% | 33% | 37% | 34% | 34% |
| AE vs CV 3 | 64% | 16% | 22% | 28% | 30% | 36% | 34% | 35% | 34% | 33% |
| BE vs CV 1 | 64% | 14% | 16% | 21% | 10% | 13% | 10% | 14% | 10% | 19% |
| BE vs CV 2 | 56% | 20% | 15% | 14% | 10% | 13% | 8% | 12% | 11% | 18% |
| BE vs CV 3 | 73% | 14% | 14% | 14% | 10% | 14% | 11% | 10% | 8% | 19% |
| DE vs CV 1 | 73% | 25% | 28% | 28% | 18% | 23% | 25% | 29% | 29% | 31% |
| DE vs CV 2 | 64% | 15% | 17% | 23% | 21% | 29% | 32% | 35% | 34% | 30% |
| DE vs CV 3 | 64% | 14% | 28% | 32% | 25% | 28% | 30% | 31% | 28% | 31% |

Keterangan:

Warna Ungu = Endofit Akar vs *Curvularia*

Warna Orange = Endofit Batang vs *Curvularia*

Warna Hijau Telur Asin = Endofit Daun vs *Curvularia*



Tabel Lampiran 5 Hasil Uji ANOVA Cendawan Endofit Vs Cendawan Bipolaris

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | ,196 | 2 | ,098 | 4,860 | ,010 |
| Within Groups | 1,571 | 78 | ,020 | | |
| Total | 1,767 | 80 | | | |

Tabel Lampiran 6 Hasil Uji Lnjut Duncan Cendawan Endofit Vs Cendawan Bipolaris

| Endofit | N | Subset for alpha = 0.05 | |
|-------------|----|-------------------------|--------|
| | | 1 | 2 |
| BE (Batang) | 27 | ,32199 | |
| DE (Daun) | 27 | | ,41336 |
| AE (Akar) | 27 | | ,43562 |
| Sig. | | 1,000 | ,566 |

Tabel Lampiran 7 Hasil Uji ANOVA Cendawan Endofit Vs Cendawan Curvularia

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | ,318 | 2 | ,159 | 7,470 | ,001 |
| Within Groups | 1,660 | 78 | ,021 | | |
| Total | 1,978 | 80 | | | |

Tabel Lampiran 8 Hasil Uji Lnjut Duncan Cendawan Endofit Vs Cendawan Curvularia

| Endofit | N | Subset for alpha = 0.05 | |
|---------|----|-------------------------|--------|
| | | 1 | 2 |
| g) | 27 | ,18531 | |
| | 27 | | ,30732 |
| | 27 | | ,32695 |
| | | 1,000 | ,623 |





Optimization Software:
www.balesio.com