**Table: S5A Gibberellin production by Fusaria with available genome sequence**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | | GA3 | GA4 | GA7 |
| ***F*. *fujikuroi* IMI58289** | -N | 6 mM glutamine | **+++** | **++** | **++** |
| 6 mM NaNO3 | **++** | **++** | **++** |
| +N | 60 mM glutamine | **-** | **-** | **-** |
| 120 mM NaNO3 | **+** | **+** | **-** |
|  | entire gene cluster | yes | | |
| ***F*. *circinatum* Fsp34** | -N | 6 mM glutamine | **-** | **-** | **-** |
| 6 mM NaNO3 | **-** | **-** | **-** |
| +N | 60 mM glutamine | **-** | **-** | **-** |
| 120 mM NaNO3 | **-** | **-** | **-** |
|  | entire gene cluster | yes | | |
| ***F*. *mangiferae* MRC7560** | -N | 6 mM glutamine | **-** | **-** | **-** |
| 6 mM NaNO3 | **-** | **-** | **-** |
| +N | 60 mM glutamine | **-** | **-** | **-** |
| 120 mM NaNO3 | **-** | **-** | **-** |
|  | entire gene cluster | yes | | |
| ***F*. *verticillioides* 3125** | -N | 6 mM glutamine | **-** | **-** | **-** |
| 6 mM NaNO3 | **-** | **-** | **-** |
| +N | 60 mM glutamine | **-** | **-** | **-** |
| 120 mM NaNO3 | **-** | **-** | **-** |
|  | entire gene cluster | no | | |
| ***F*. *oxysporum* 4287** | -N | 6 mM glutamine | **-** | **-** | **-** |
| 6 mM NaNO3 | **-** | **-** | **-** |
| +N | 60 mM glutamine | **-** | **-** | **-** |
| 120 mM NaNO3 | **-** | **-** | **-** |
|  | gene cluster | no | | |

- not detectable

+ peak intensity up to 105 ++ peak intensity from 105 to 106 **?**

no sufficient genome data

**Table S5B Gibberellin production by *F. oxysporum* isolates with an entire GA gene cluster**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | GA3 | GA4 | GA7 | **gene cluster** |
| ***F*. *oxysporum* 4287 +cos 1** | 6 mM NH4NO3 | +++ | ++ | +++ | **yes** |
| ***F*. *oxysporum* 4287** | **-** | **-** | **-** | **no** |
| ***F*. *oxysporum* 5176a** | **-** | **-** | **-** | **yes** |
| ***F*. *oxysporum* 2036** | **-** | **-** | **-** | **yes** |
| ***F*. *oxysporum* 2035** | **-** | **-** | **-** | **yes** |
| ***F*. *oxysporum* 2000** | **-** | **-** | **-** | **yes** |

++ peak intensity from 105 to 106 +++ peak intensity higher than 106