Rapid Discovery and Functional Characterization of Terpene Synthases from Four Endophytic Xylariaceae

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Supplemental Data

**Table S1.**

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| **TPS EC12-PGS from *Daldinia eschscholzii* EC12** |
| Compound | Retention Time (min) | % total peak area | Match (%)a | R-match (%)b |
| ***β*-*cis*-Ocimene** (**1c**) | 9.524 | **21.06** | 94.7 | 96 |
| ***β*-pinene** (**1a**) | 7.994 | **17.64** | 92.5 | 93.3 |
| **1S-*α*-pinene** (**1b**) | 9.225 | **16.92** | 94.3 | 96.7 |
| **α-guaiene** (**1d**) | 16.482 | **11.03** | 92.1 | 93.7 |
| Viridiflorol (**1e**) | 21.269 | 2.385 | 88.1 | 92.6 |
| **TPS EC38-PGS from *Hypoxylon sp*. EC38**  |
| Compound | Retention Time (min) | % total peak area | Match (%) | R-match (%) |
| ***β*-*cis*-Ocimene (1c)** | 9.56 | **44.52** | 93.3 | 94.8 |
| **1S-*α*-pinene (1b)** | 9.259 | **21.04** | 95 | 96.7 |
| ***β*-pinene (1a)** | 8.041 | **9.40** | 93.9 | 94.5 |
| **α-guaiene (1d)** | 16.49 | **8.156** | 92.4 | 93.7 |
| Viridiflorol (**1e**) | 21.269 | 2.076 | 89.3 | 92.6 |

a) Match: the match factor was obtained by matching all peaks in the sample spectrum with peaks in the library. The match factor provides a sense of spectral similarity between peaks from the sample and peaks from the library, b) R-match: the reverse match value was obtained by ignoring all peaks that were in the sample spectrum but not in the library spectrum. The percentage value presented represents the degree of similarity between the peaks from sample and peaks from the library.



**A**



**B**