**S4 Table. Real-time PCR amplification of *Sphaerulina musiva* directly from naturally-infected poplar hybrid leaves.** DNA was extracted from leaves of poplar hybrids (*P. trichocarpa* x *P. deltoides)* infected by *S. musiva* using a Qiagen DNA extraction column and a field-ready protocol using Edwards buffer. DNA amplification was conducted in triplicate by qPCR using field-ready lyophilized reagents and fresh reagents. Average Ct values of the replicates are reported for each of the conditions tested with the plant internal control (RbcL) and the *S. musiva* (SepMu) assays. All tests were conducted using material from the same leaf disc to allow direct comparisons between extraction methods. Both probes used carry the FAM fluorophore.

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| --- | --- | --- | --- | --- | --- |
| **Target** | **Extraction** | **Reagents** | **Ct values** | **Standard dev.** | **Rep.** |
| RbcL | Column | Lyophilized | 17.52 | 0.03 | 3 |
|  | Fresh | 17.3 | 0.11 | 3 |
| Edward buffer | Lyophilized | 21.24 | 0.07 | 3 |
|  | Fresh | 21.46 | 0.08 | 3 |
| SepMu | Column | Lyophilized | 23.8 | 0.42 | 3 |
|  | Fresh | 23.34 | 0.07 | 3 |
| Edward buffer | Lyophilized | 25.12 | 0.02 | 3 |
|  | Fresh | 25.41 | 0.09 | 3 |