

Article

Rapid Detection of *Pityophthorus Juglandis* (Blackman) (Coleoptera, Curculionidae) with the Loop-Mediated Isothermal Amplification (LAMP) Method

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Supplementary:

Table S1. Tamp means \pm SD for adult and frass samples of *P. juglandis*.

| N° | Description | Tamp Means | SD | N° | Description | Tamp Means | SD | Mean Melting Temperatures (°C) | SD |
|----|----------------------------|------------|------|----|----------------------------|------------|------|--------------------------------|------|
| 1 | <i>P. juglandis</i> _adult | 6.06 | 0.02 | 1 | <i>P. juglandis</i> _frass | 12.26 | 0.70 | 90.75 | 0.35 |
| 2 | <i>P. juglandis</i> _adult | 6.06 | 0.04 | 2 | <i>P. juglandis</i> _frass | 12.90 | 1.20 | 91.00 | 0.00 |
| 3 | <i>P. juglandis</i> _adult | 6.04 | 0.07 | 3 | <i>P. juglandis</i> _frass | 13.30 | 1.69 | 91.00 | 0.00 |
| 4 | <i>P. juglandis</i> _adult | 6.23 | 0.16 | 4 | <i>P. juglandis</i> _frass | 12.63 | 2.60 | 90.50 | 0.00 |
| 5 | <i>P. juglandis</i> _adult | 6.18 | 0.08 | 5 | <i>P. juglandis</i> _frass | 13.23 | 1.64 | 90.50 | 0.00 |
| 6 | <i>P. juglandis</i> _adult | 6.22 | 0.05 | 6 | <i>P. juglandis</i> _frass | 12.29 | 0.74 | 91.00 | 0.00 |
| 7 | <i>P. juglandis</i> _adult | 6.17 | 0.11 | 7 | <i>P. juglandis</i> _frass | 12.88 | 1.08 | 90.75 | 0.35 |
| 8 | <i>P. juglandis</i> _adult | 6.24 | 0.08 | 8 | <i>P. juglandis</i> _frass | 13.31 | 1.69 | 90.75 | 0.35 |
| 9 | <i>P. juglandis</i> _adult | 6.38 | 0.02 | 9 | <i>P. juglandis</i> _frass | 13.33 | 1.66 | 91.00 | 0.00 |
| 10 | <i>P. juglandis</i> _adult | 6.32 | 0.04 | 10 | <i>P. juglandis</i> _frass | 12.54 | 1.22 | 91.00 | 0.00 |
| 11 | <i>P. juglandis</i> _adult | 6.44 | 0.03 | 11 | <i>P. juglandis</i> _frass | 12.35 | 0.82 | 90.50 | 0.00 |
| 12 | <i>P. juglandis</i> _adult | 6.17 | 0.08 | 12 | <i>P. juglandis</i> _frass | 12.31 | 0.77 | 90.50 | 0.00 |
| 13 | <i>P. juglandis</i> _adult | 6.08 | 0.06 | 13 | <i>P. juglandis</i> _frass | 12.88 | 0.90 | 91.00 | 0.00 |
| 14 | <i>P. juglandis</i> _adult | 6.10 | 0.09 | 14 | <i>P. juglandis</i> _frass | 13.32 | 1.01 | 90.75 | 0.35 |
| 15 | <i>P. juglandis</i> _adult | 6.42 | 0.12 | 15 | <i>P. juglandis</i> _frass | 13.34 | 0.96 | 91.00 | 0.00 |
| 16 | <i>P. juglandis</i> _adult | 6.48 | 0.02 | 16 | <i>P. juglandis</i> _frass | 12.54 | 0.92 | 91.00 | 0.00 |
| 17 | <i>P. juglandis</i> _adult | 6.58 | 0.05 | 17 | <i>P. juglandis</i> _frass | 12.41 | 0.87 | 90.75 | 0.35 |
| 18 | <i>P. juglandis</i> _adult | 6.24 | 0.04 | 18 | <i>P. juglandis</i> _frass | 12.94 | 0.83 | 91.00 | 0.00 |
| 19 | <i>P. juglandis</i> _adult | 6.42 | 0.02 | 19 | <i>P. juglandis</i> _frass | 13.32 | 0.79 | 91.00 | 0.00 |
| 20 | <i>P. juglandis</i> _adult | 6.43 | 0.14 | 20 | <i>P. juglandis</i> _frass | 14.24 | 0.75 | 90.5 | 0.00 |
| 21 | <i>P. juglandis</i> _adult | 6.45 | 0.02 | 21 | <i>P. juglandis</i> _frass | 13.20 | 0.71 | 90.5 | 0.00 |
| 22 | <i>P. juglandis</i> _adult | 6.47 | 0.15 | 22 | <i>P. juglandis</i> _frass | 13.23 | 0.67 | 91.00 | 0.00 |
| 23 | <i>P. juglandis</i> _adult | 6.49 | 0.16 | 23 | <i>P. juglandis</i> _frass | 13.25 | 0.63 | 90.75 | 0.35 |
| 24 | <i>P. juglandis</i> _adult | 6.51 | 0.08 | 24 | <i>P. juglandis</i> _frass | 13.28 | 0.59 | 91.00 | 0.00 |

Table S2. Tamp means \pm SD for the samples included in the blind panel.

| N° | Description | Tamp Means | SD | Mean Melting Temperatures (°C) | SD |
|----|--|------------|------|-----------------------------------|------|
| 1 | <i>P. juglandis</i> _adult | 8.78 | 0.32 | 91.00 | 0 |
| 2 | <i>P. juglandis</i> _adult | 8.78 | 0.26 | 91.00 | 0 |
| 3 | <i>P. juglandis</i> _adult | 9.10 | 0.21 | 90.50 | 0 |
| 4 | <i>P. juglandis</i> _adult | 8.24 | 0.06 | 91.00 | 0 |
| 5 | <i>P. juglandis</i> _adult | 8.78 | 0.08 | 91.00 | 0 |
| 6 | <i>P. juglandis</i> _adult | 8.74 | 0.05 | 90.50 | 0 |
| 7 | <i>P. juglandis</i> _frass | 13.20 | 0.02 | 90.75 | 0.35 |
| 8 | <i>P. juglandis</i> _frass | 12.95 | 0.18 | 90.50 | 0 |
| 9 | <i>P. juglandis</i> _frass | 12.89 | 0.12 | 91.00 | 0 |
| 10 | <i>P. juglandis</i> _frass | 12.85 | 0.48 | 91.00 | 0 |
| 11 | <i>P. juglandis</i> _frass | 13.20 | 0.08 | 90.50 | 0 |
| 12 | <i>P. juglandis</i> _frass | 12.98 | 0.24 | 90.50 | 0 |
| 13 | <i>P. juglandis</i> _frass | 12.89 | 0.60 | 91.00 | 0 |
| 14 | <i>P. juglandis</i> _frass | 12.90 | 0.20 | 90.75 | 0.35 |
| 15 | <i>Pityophthorus pubescens</i> (Marsham)_adult | n/a | 0.00 | n/a | 0.00 |
| 16 | <i>Ips sexdentatus</i> (Börner)_adult | n/a | 0.00 | n/a | 0.00 |
| 17 | <i>Ips typographus</i> (Linnaeus)_adult | n/a | 0.00 | n/a | 0.00 |
| 18 | <i>Orthotomicus erosus</i> (Wollaston)_adult | n/a | 0.00 | n/a | 0.00 |
| 19 | <i>Hylurgus ligniperda</i> (Fabricius)_adult | n/a | 0.00 | n/a | 0.00 |
| 20 | <i>Tomicus destruens</i> (Wollaston)_adult | n/a | 0.00 | n/a | 0.00 |
| 21 | <i>Xyleborinus saxesenii</i> (Ratzeburg)_adult | n/a | 0.00 | n/a | 0.00 |
| 22 | <i>Xyleborus dispar</i> (Fabricius)_adult | n/a | 0.00 | n/a | 0.00 |
| 23 | <i>Xyleborus monographus</i> (Fabricius)_adult | n/a | 0.00 | n/a | 0.00 |
| 24 | <i>Xylosandrus compactus</i> (Eichhoff)_adult | n/a | 0.00 | n/a | 0.00 |
| 25 | <i>Xylosandrus germanus</i> (Blandford)_adult | n/a | 0.00 | n/a | 0.00 |
| 26 | <i>Lepturges confluent</i> (Haldeman)_adult | n/a | 0.00 | n/a | 0.00 |
| 27 | <i>Xylosandrus crassiusculus</i> (Motschulsky)_adult | n/a | 0.00 | n/a | 0.00 |
| 28 | <i>Zeuzera pyrina</i> (Linnaeus)_larva | n/a | 0.00 | n/a | 0.00 |
| 29 | <i>Xylosandrus compactus</i> (Eichhoff)_frass | n/a | 0.00 | n/a | 0.00 |
| 30 | <i>Xylosandrus compactus</i> (Eichhoff)_frass | n/a | 0.00 | n/a | 0.00 |
| 31 | <i>Xylosandrus compactus</i> (Eichhoff)_frass | n/a | 0.00 | n/a | 0.00 |
| 32 | <i>Xylosandrus compactus</i> (Eichhoff)_frass | n/a | 0.00 | n/a | 0.00 |