

Supporting information

**Phytotoxic dioxolanones are potential virulence factors in the infection
process of *Guignardia bidwellii***

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Toxin detection *in planta*

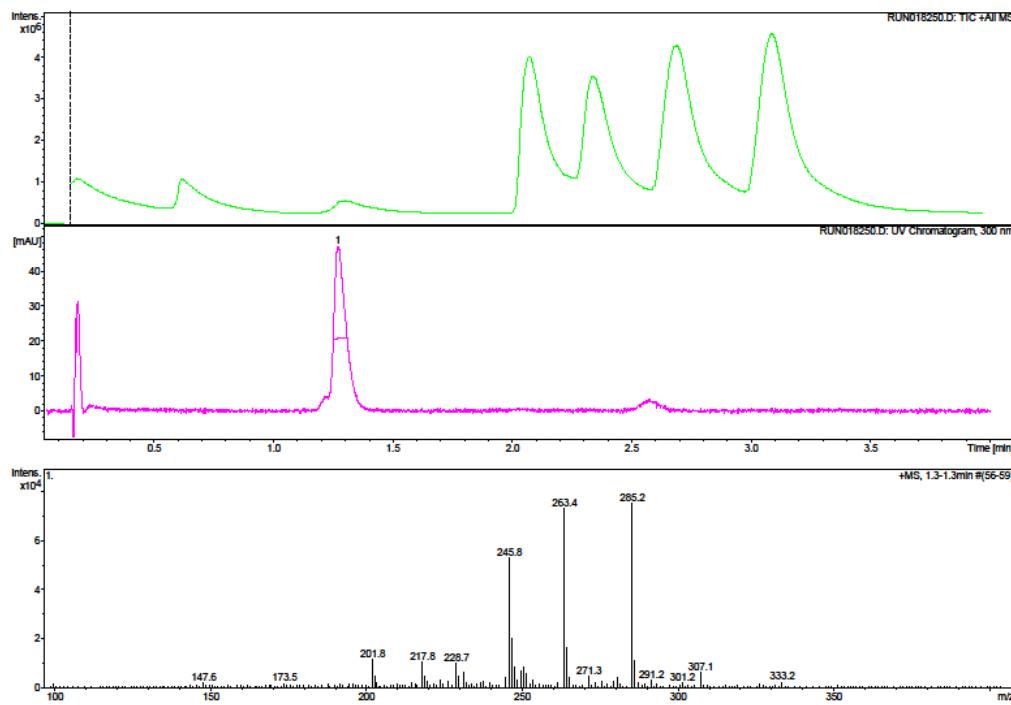


Fig. 1: HPLC-ESIMS run data of the HPLC peak (retention time 8.7 min). (gradient: 70:30 -> 65:35 H₂O/MeCN in 4 minutes, then in 2 minutes 65:35 -> 10:90 H₂O/MeCN)

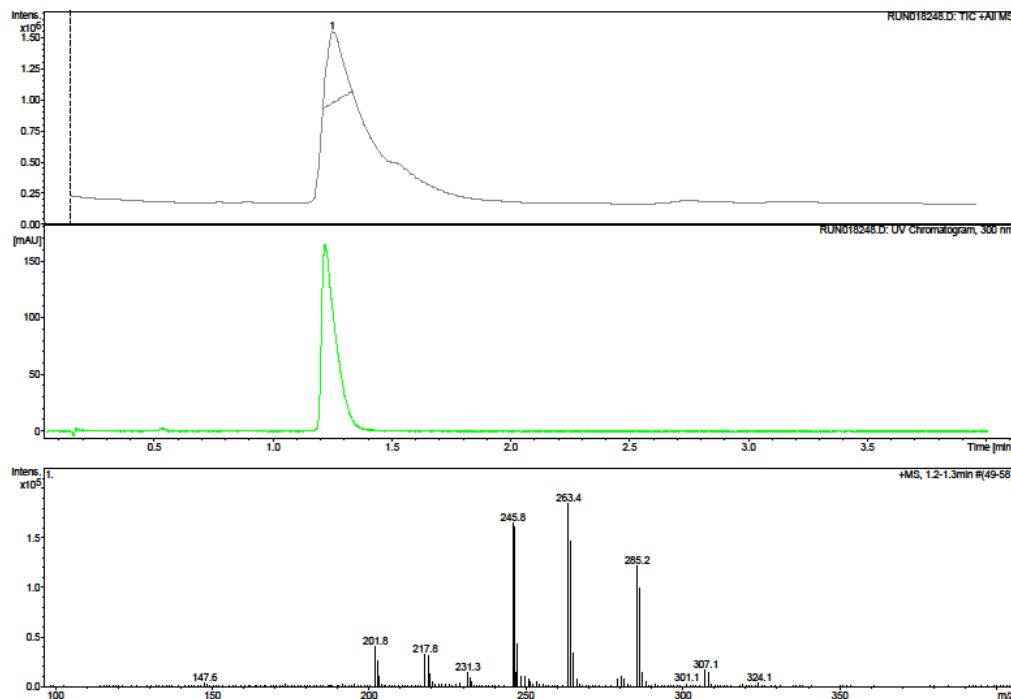
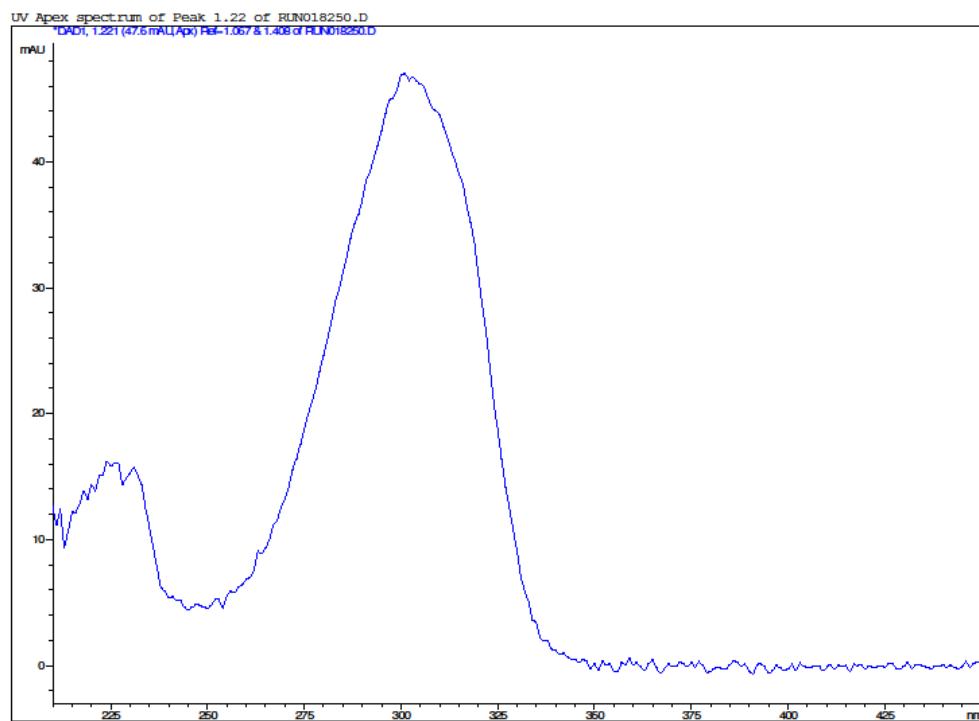


Fig 2: HPLC-ESIMS data of isolated partially ¹³C-labeled guignardic acid. (gradient: 70:30 -> 65:35 H₂O/MeCN in 4 minutes, then in 2 minutes 65:35 -> 10:90 H₂O/MeCN)

Print of window 39: UV Apex spectrum of Peak 1.22 of RUN018250.D

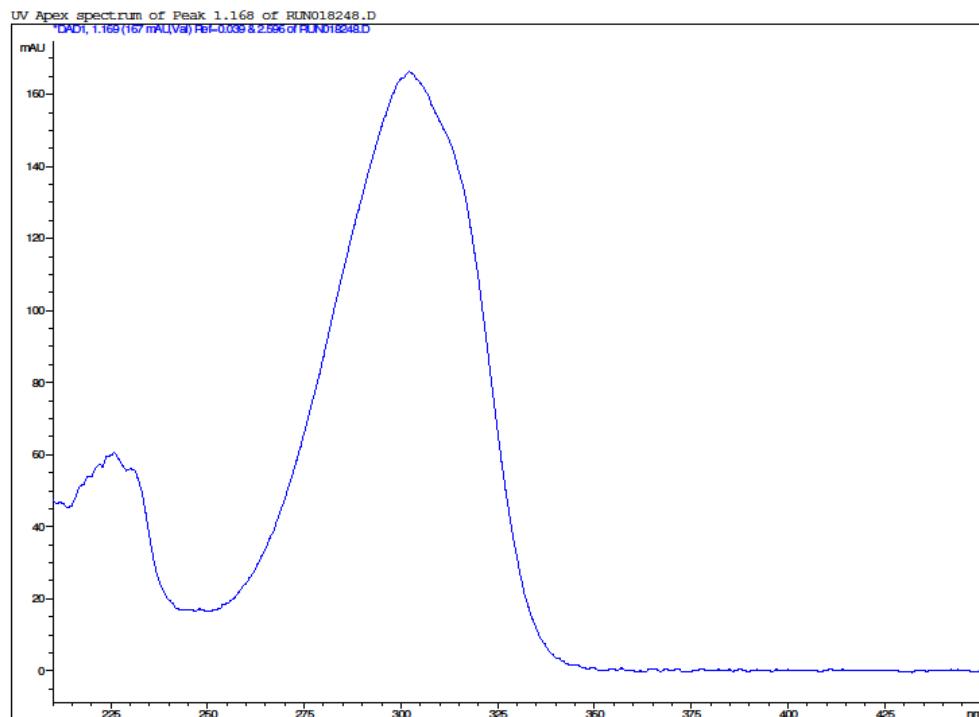


Instrument: 1 2/23/2016 5:23:27 PM NN

Page 1 of 1

Fig. 3: UV spectrum at 1.3 minutes of the collected HPLC peak (retention time 8.7 minutes).

Print of window 39: UV Apex spectrum of Peak 1.168 of RUN018248.D



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Page 1 of 1

Fig. 4: UV spectrum at 1.3 minutes of isolated partially ^{13}C -labeled guignardic acid.

Elucidation of the precursor for the biosynthesis of phytotoxic dioxolanones

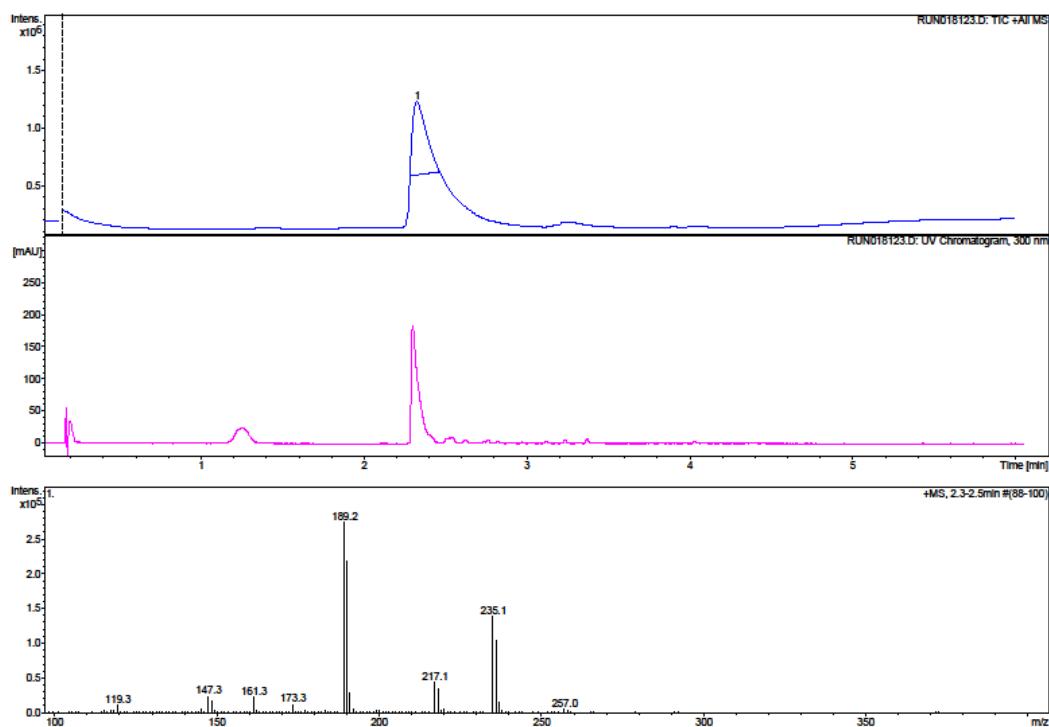


Fig. 5: HPLC-ESIMS data of isolated partially ^{13}C -labeled alaguignardic acid. (gradient: 90:10 \rightarrow 10:90 $\text{H}_2\text{O}/\text{MeCN}$ in 4 minutes, then 2 minutes 10:90 $\text{H}_2\text{O}/\text{MeCN}$)

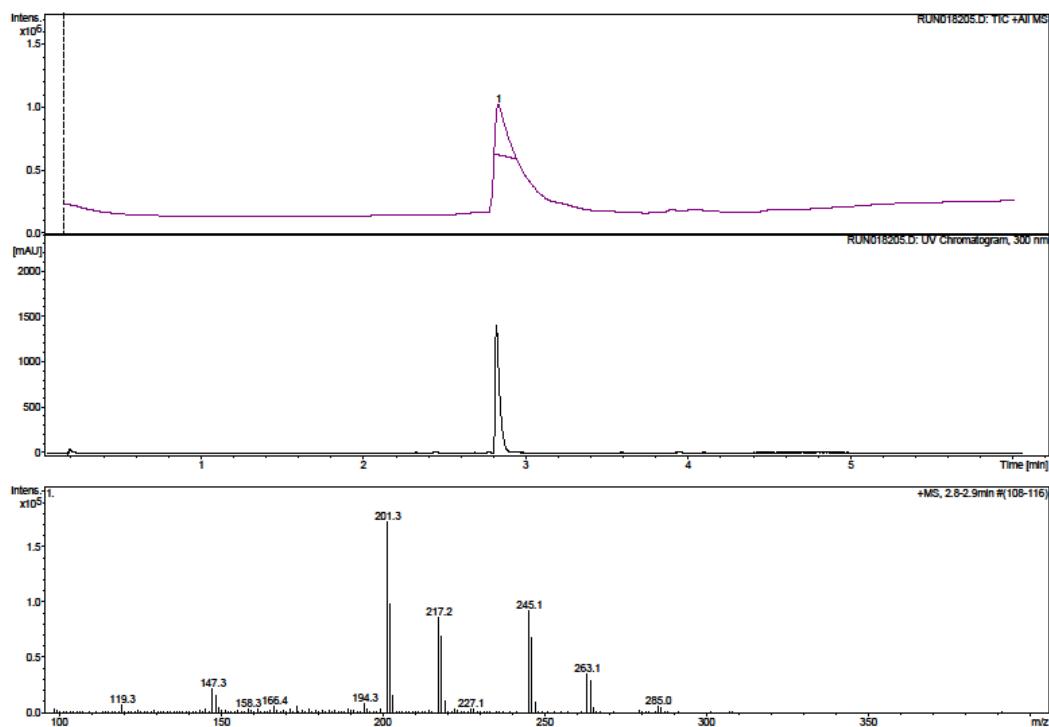


Fig. 6: HPLC-ESIMS data of isolated partially ^{13}C -labeled guignardic acid. (gradient: 90:10 \rightarrow 10:90 $\text{H}_2\text{O}/\text{MeCN}$ in 4 minutes, then 2 minutes 10:90 $\text{H}_2\text{O}/\text{MeCN}$)

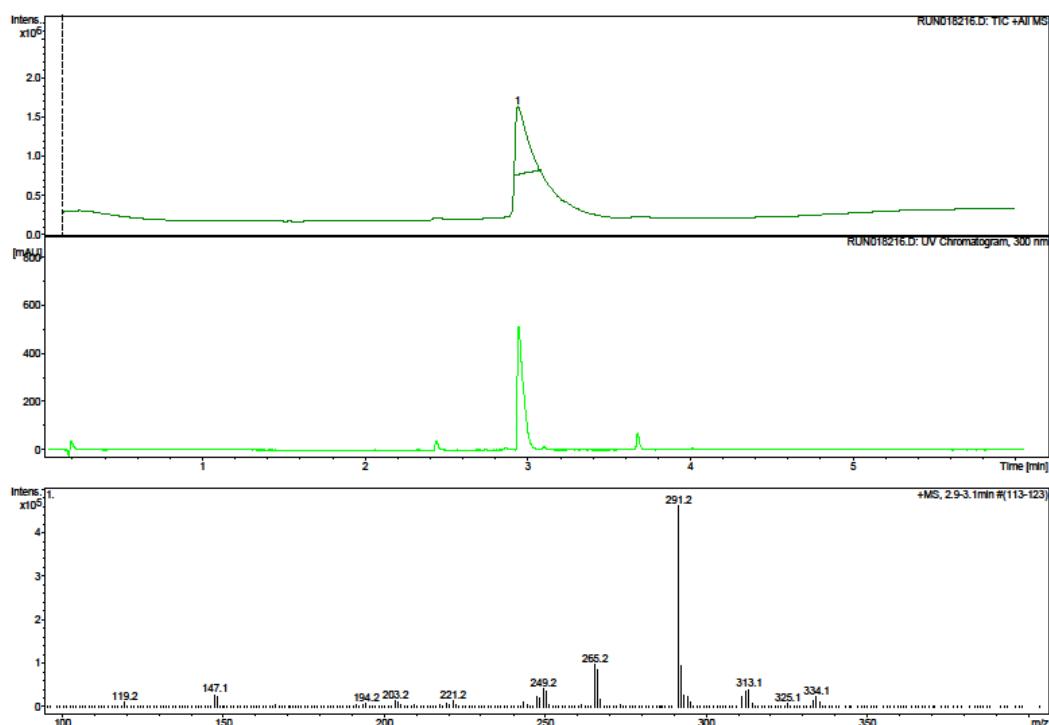


Fig. 7: HPLC-ESIMS data of isolated partially ^{13}C -labeled phenguignardic acid. (gradient: 90:10 \rightarrow 10:90 $\text{H}_2\text{O}/\text{MeCN}$ in 4 minutes, then 2 minutes 10:90 $\text{H}_2\text{O}/\text{MeCN}$)

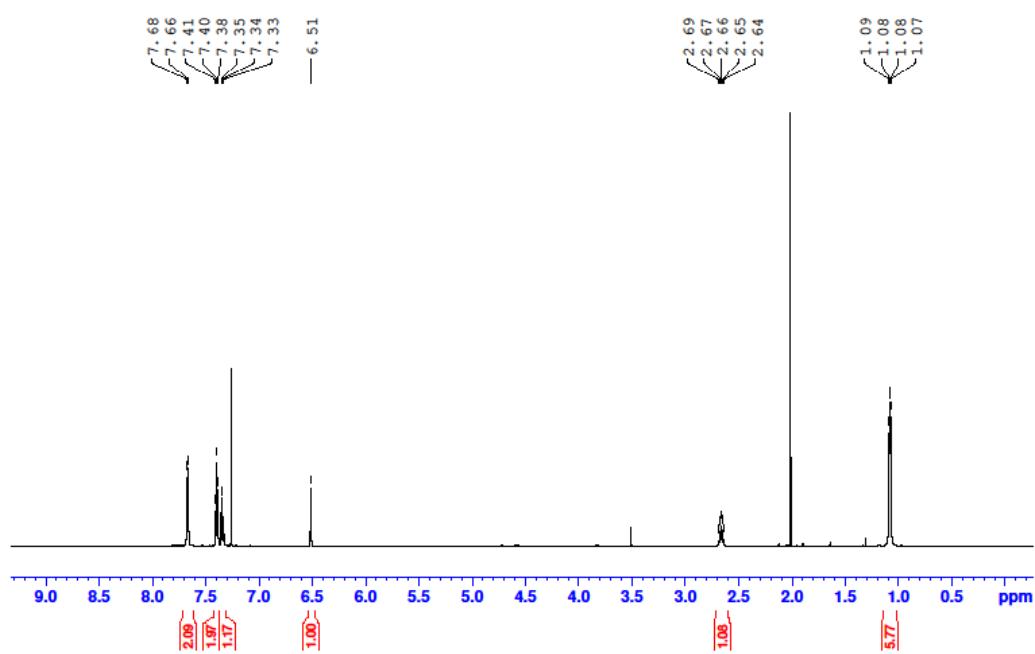


Fig. 8: ^1H -NMR of partially ^{13}C labeled guignardic acid (600 MHz, CDCl_3).

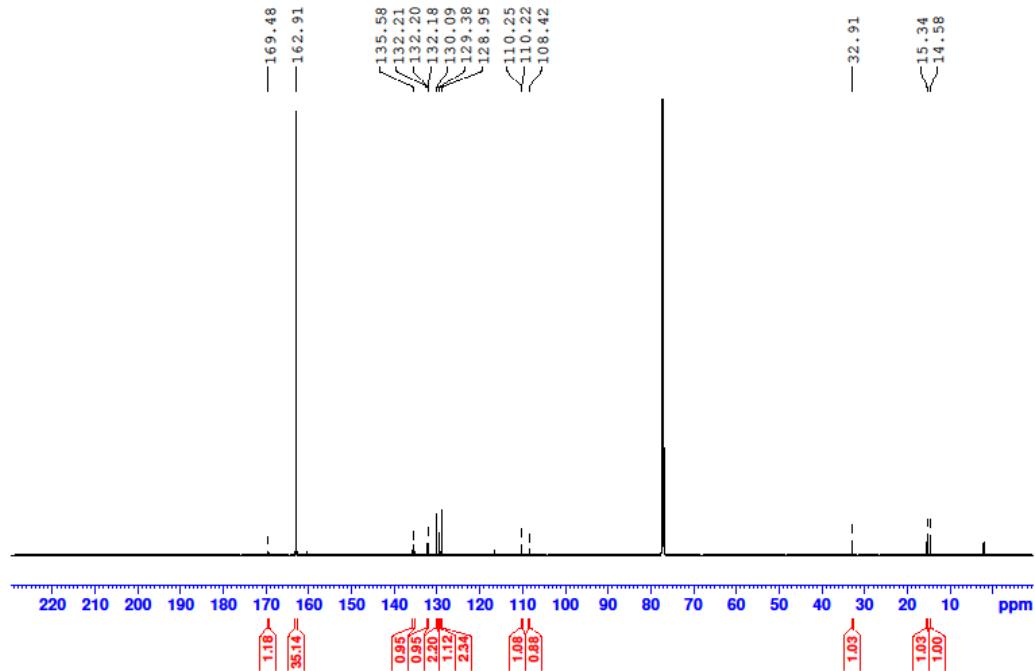


Fig. 9: Igated ^{13}C -NMR of partially ^{13}C labeled guignardic acid (151 MHz, CDCl_3).

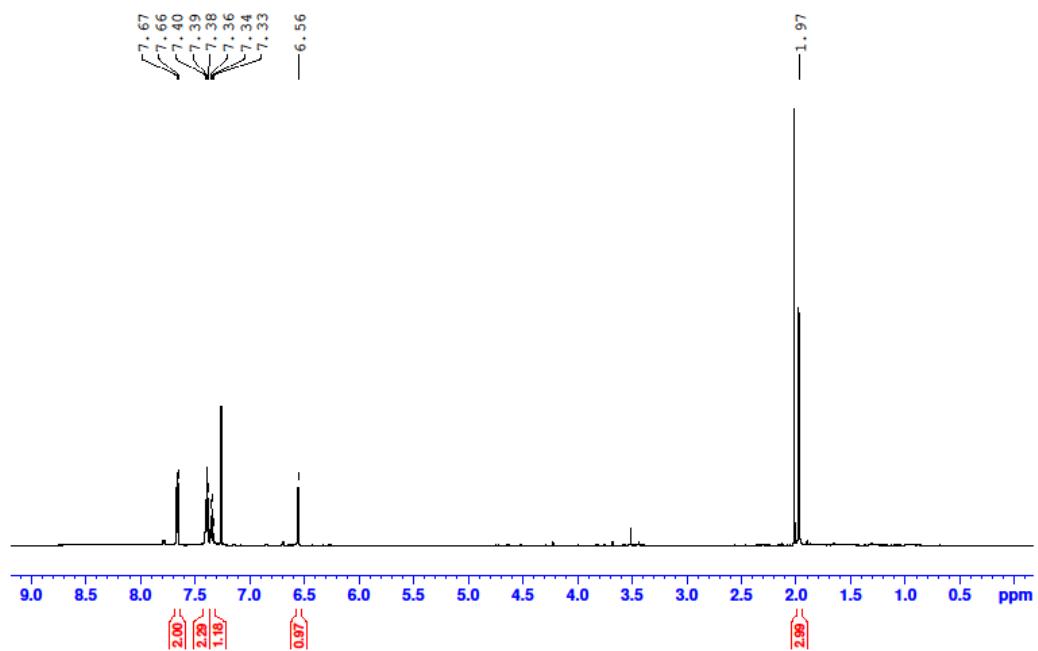


Fig. 10: ^1H -NMR of partially ^{13}C labeled alaguignardic acid (600 MHz, CDCl_3).

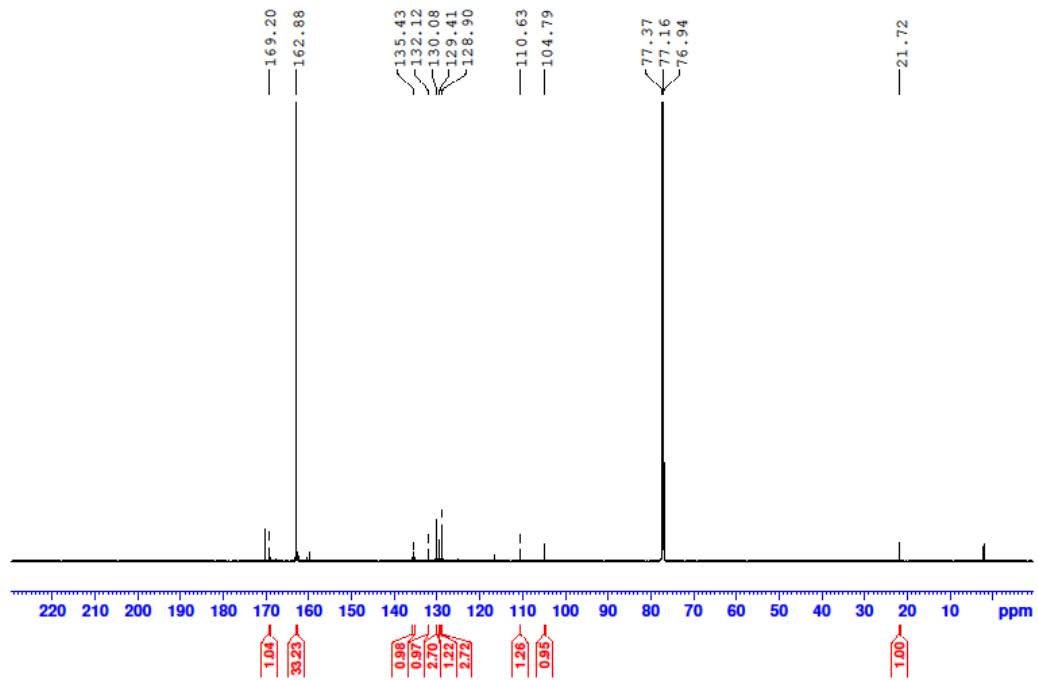


Fig. 11: Igated ^{13}C -NMR of partially ^{13}C labeled alaguignardic acid (151 MHz, CDCl_3).

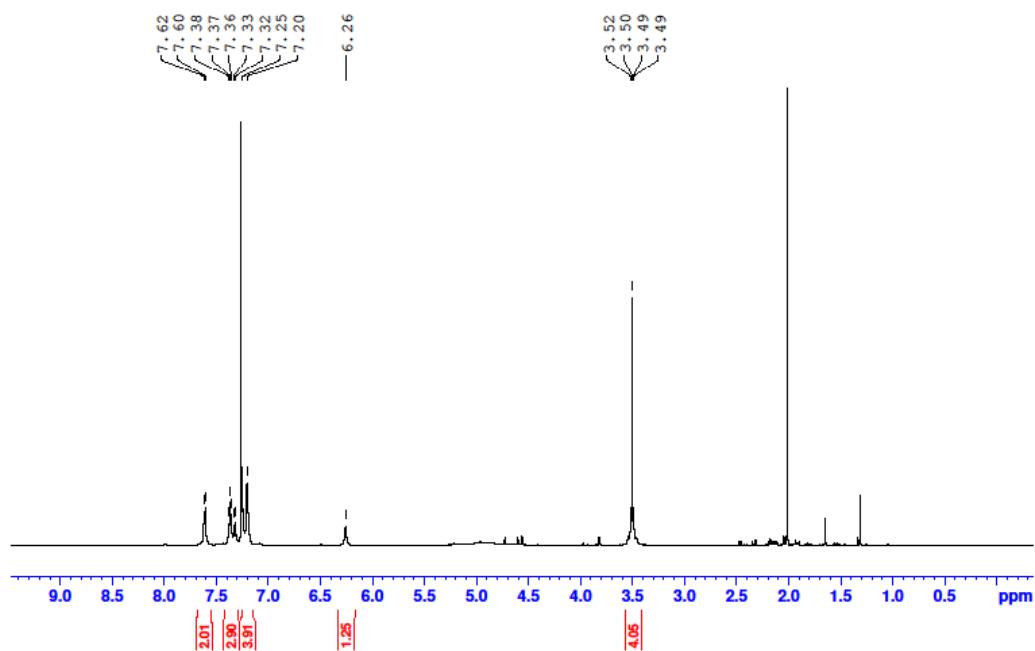


Fig. 12: ^1H -NMR of partially ^{13}C labeled phenguignardic acid (600 MHz, CDCl_3).

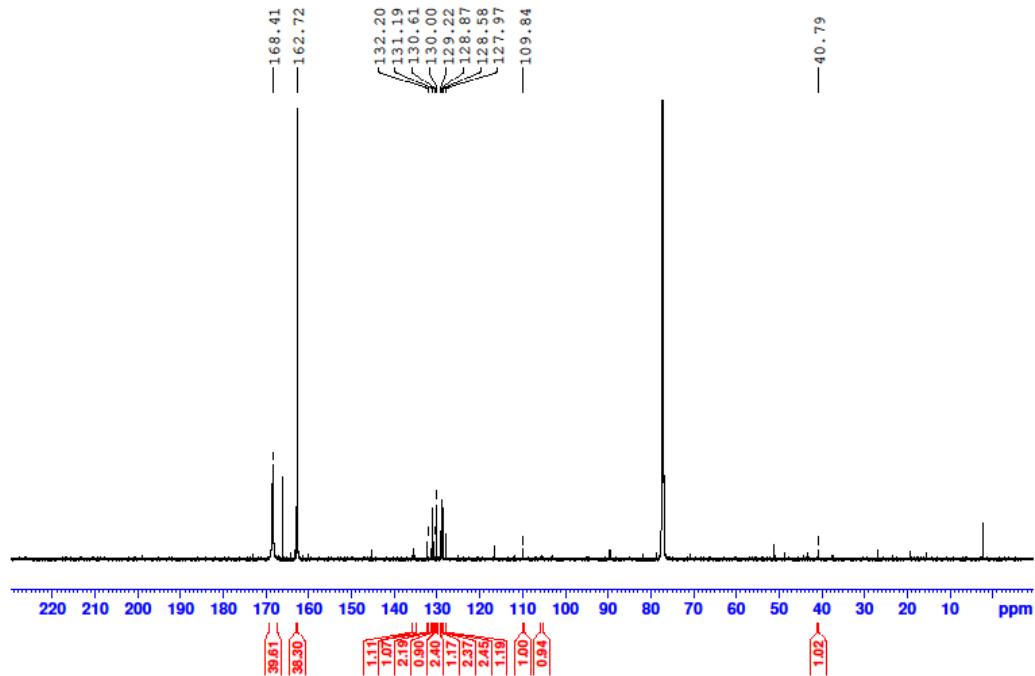


Fig. 13: Igated ^{13}C -NMR of partially ^{13}C labeled phenguignardic acid (151 MHz, CDCl_3).