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Supplementary Information

Elucidation of the biosynthetic pathway of *cis*-jasmonone in *Lasiodiplodia theobromae*

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List of Supplementary Information

Figure S1. Representative GC-MS chromatograms for measuring authentic CJ.

Figure S2. Experimental procedure for the feeding experiment.

Figure S3. Representative GC-MS chromatograms for measuring authentic MeJA.

Figure S4. Representative GC-MS chromatograms analyzing fungal-derived JA and JA-d5 using LA-d5 as a substrate for the feeding experiment.

Figure S5. Representative GC-MS chromatograms analyzing fungal-derived JA and JA-d5 using LA-d5 as a substrate for the feeding experiment.

Figure S6. Representative GC-MS chromatograms analyzing fungal-derived JA and JA-d6 using OPC8-d6 as a substrate for the feeding experiment.

Figure S7. Representative GC-MS chromatograms analyzing fungal-derived CJ and CJ-d6 using OPC8-d6 as a substrate for the feeding experiment.

Figure S8. Representative GC-MS chromatograms analyzing fungal-derived CJ and CJ-d4 using *iso*-OPDA-d8 as a substrate for the feeding experiment.

Figure S9. Representative GC-MS chromatogram analyzing authentic CJ-d7.

Figure S10. Representative GC-MS chromatographs for measuring MeJA in feeding experiment using *iso*-MeOPDA-d8.

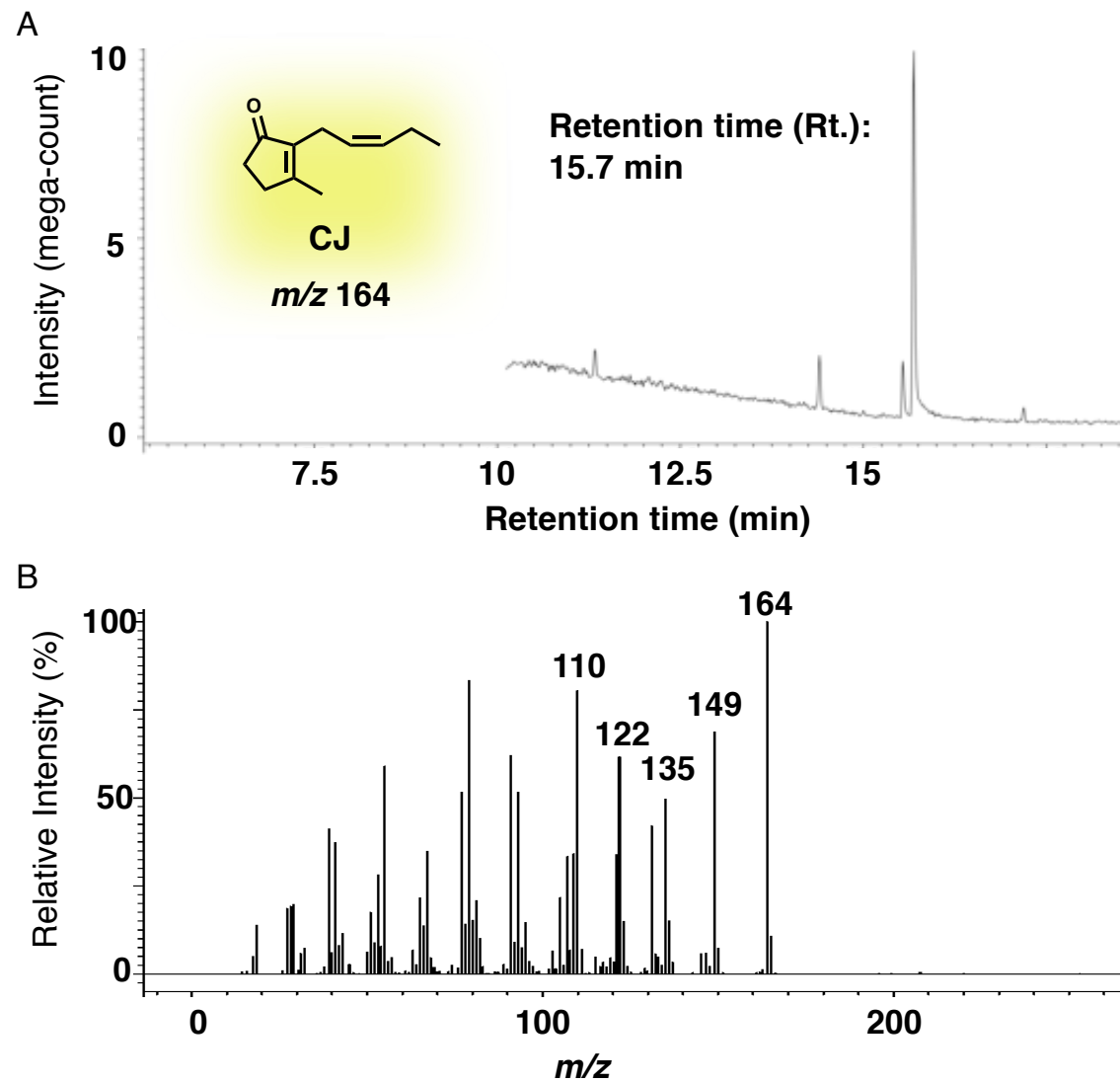


Figure S1. Representative GC-MS chromatograms for measuring authentic CJ.

A: Representative GC-MS chromatogram for measuring authentic CJ using selected ion monitoring at m/z 164. B: Fragmentation pattern of the MS peak having Rt. of 15.7 min in the chromatogram described in A.

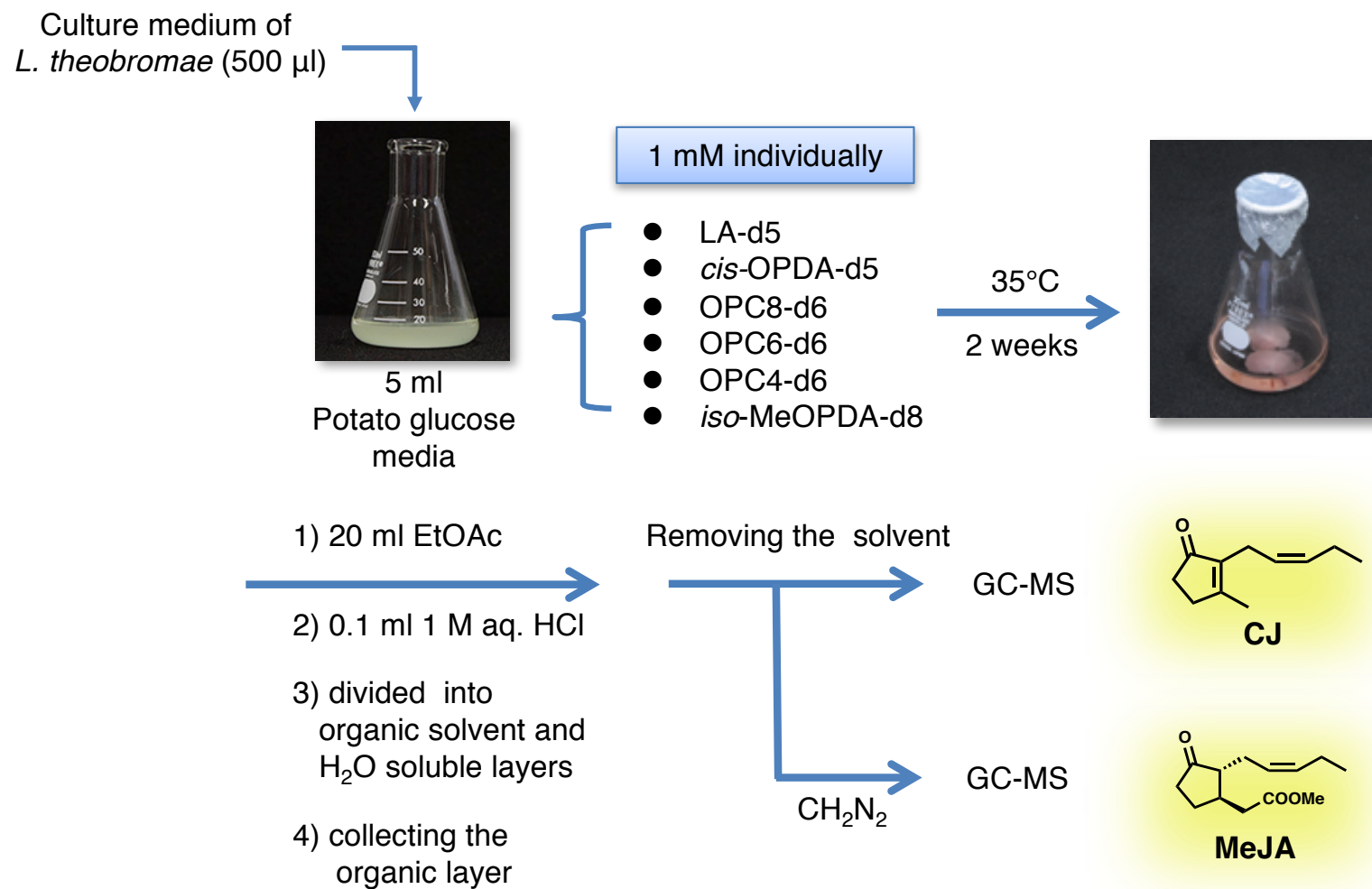


Figure S2. Experimental procedure for the feeding experiment.

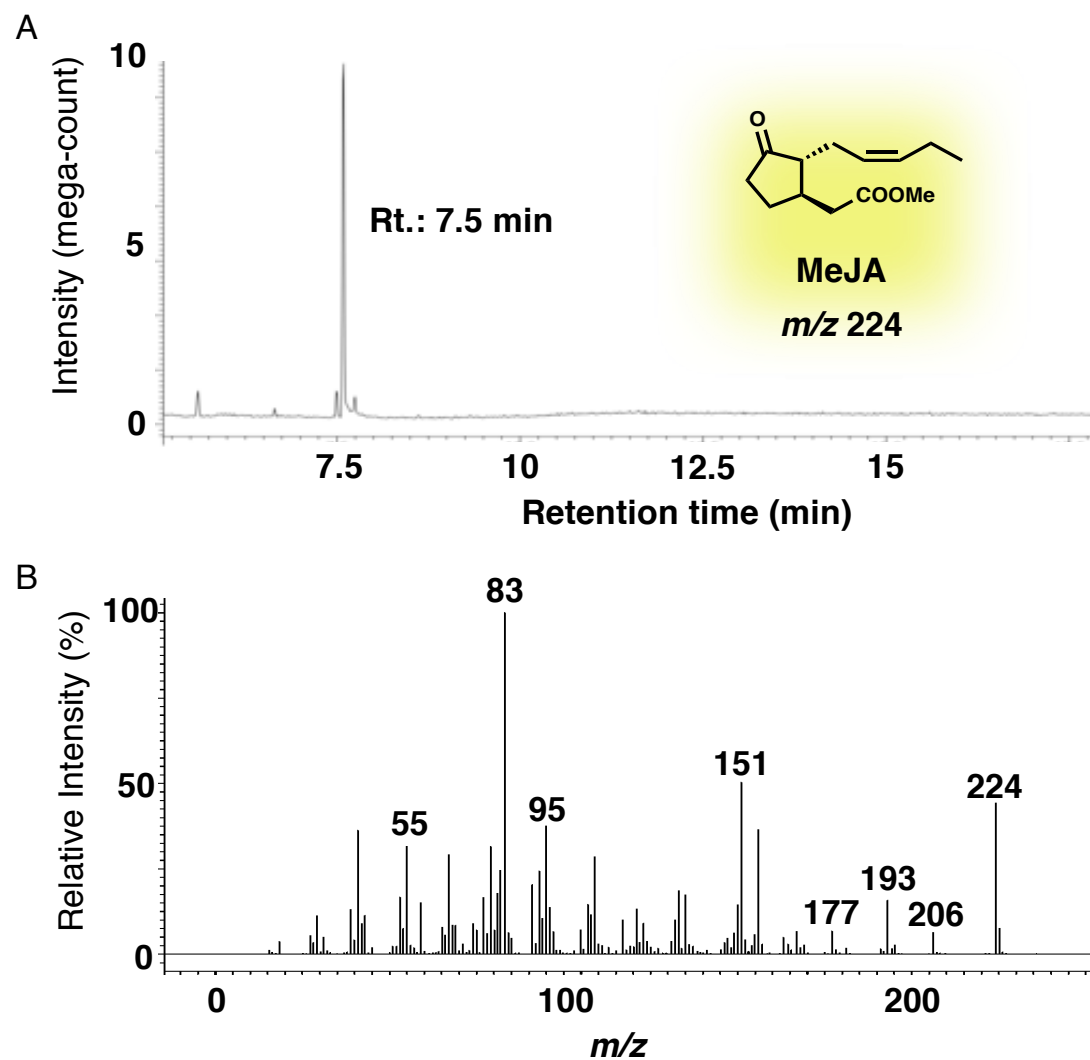


Figure S3. Representative GC-MS chromatograms for measuring authentic MeJA. A: Representative GC-MS chromatogram for measuring authentic MeJA using selected ion monitoring at m/z 224. B: Fragmentation pattern of the MS peak having Rt. of 7.5 min in the chromatogram described in A.

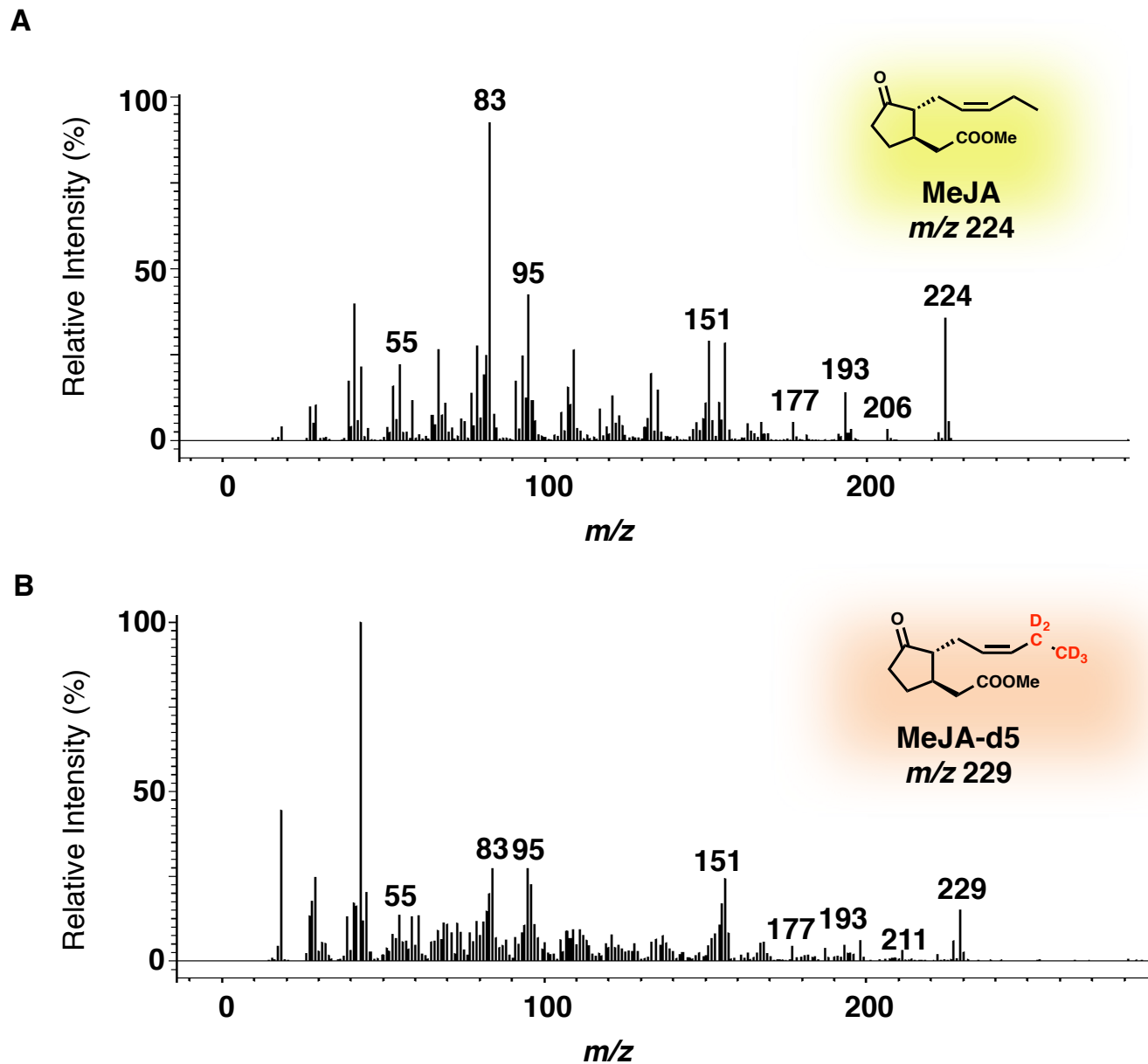


Figure S4. Representative GC-MS chromatograms analyzing fungal-derived JA and JA-d5 using LA-d5 as a substrate for the feeding experiment. A: MS chromatogram for analyzing MeJA. B: MS chromatogram for analyzing MeJA-d5.

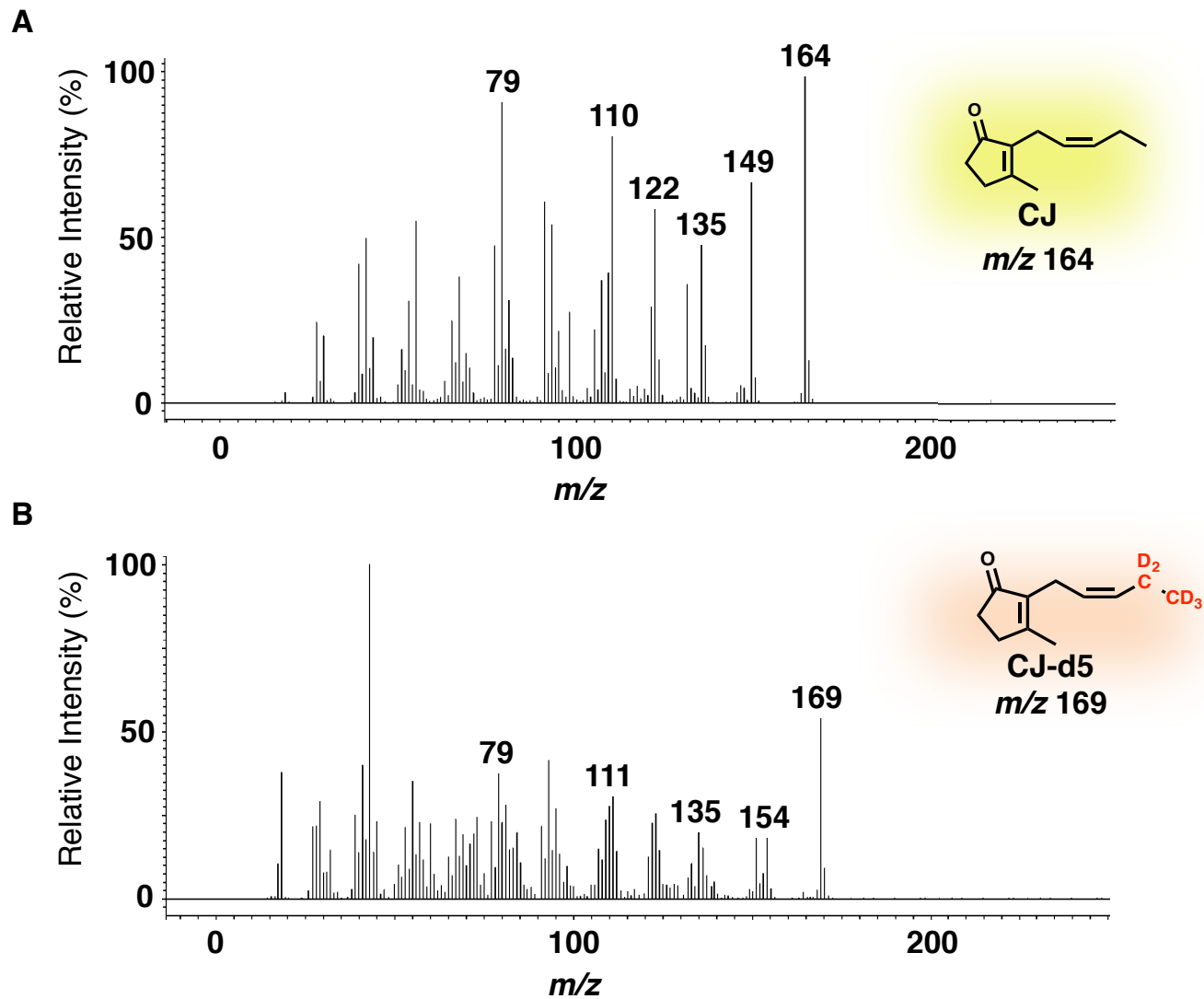


Figure S5. Representative GC-MS chromatograms analyzing fungal-derived JA and JA-d5 using LA-d5 as a substrate for the feeding experiment. A: MS chromatogram for analyzing CJ; B: MS chromatogram for analyzing CJ-d5.

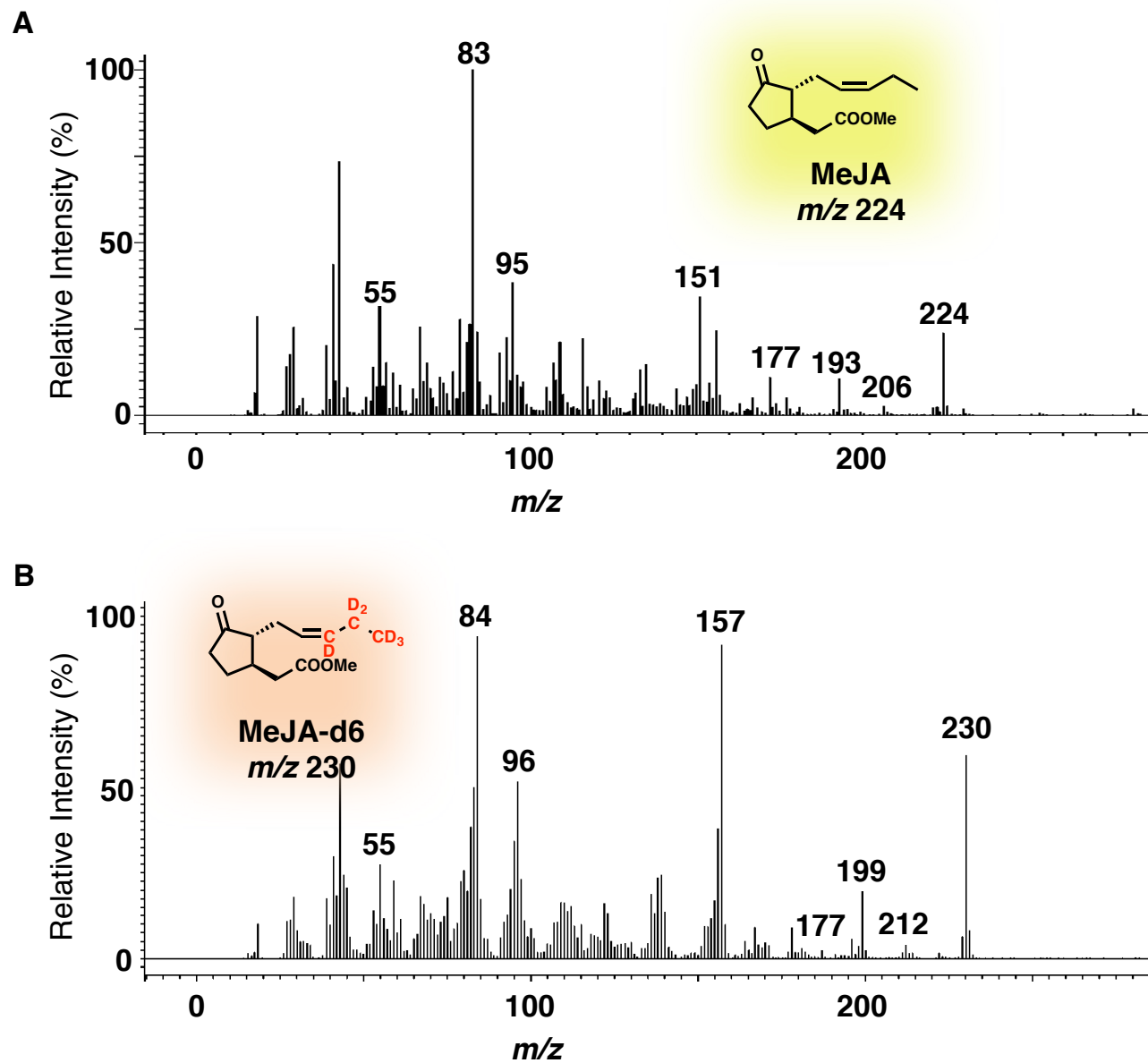


Figure S6. Representative GC-MS chromatograms analyzing fungal-derived JA and JA-d6 using OPC8-d6 as a substrate for the feeding experiment.

A: MS chromatogram for analyzing MeJA; B: MS chromatogram for analyzing MeJA-d6.

A

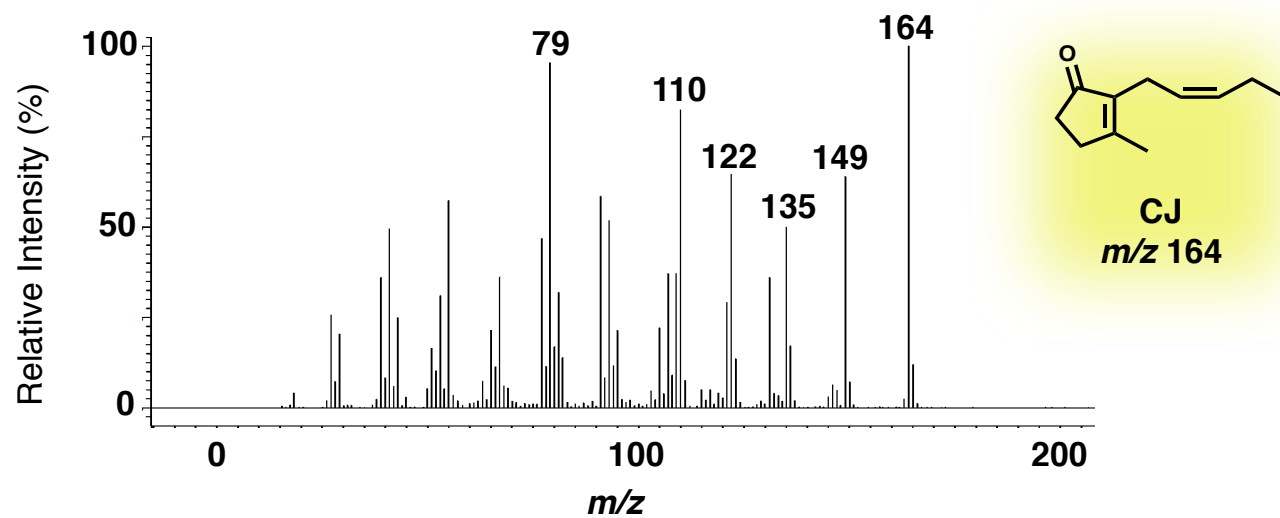


Figure S7. Representative GC-MS chromatogram analyzing fungal-derived CJ and CJ-d6 using OPC8-d6 as a substrate for the feeding experiment.
A: MS chromatogram for analyzing CJ.

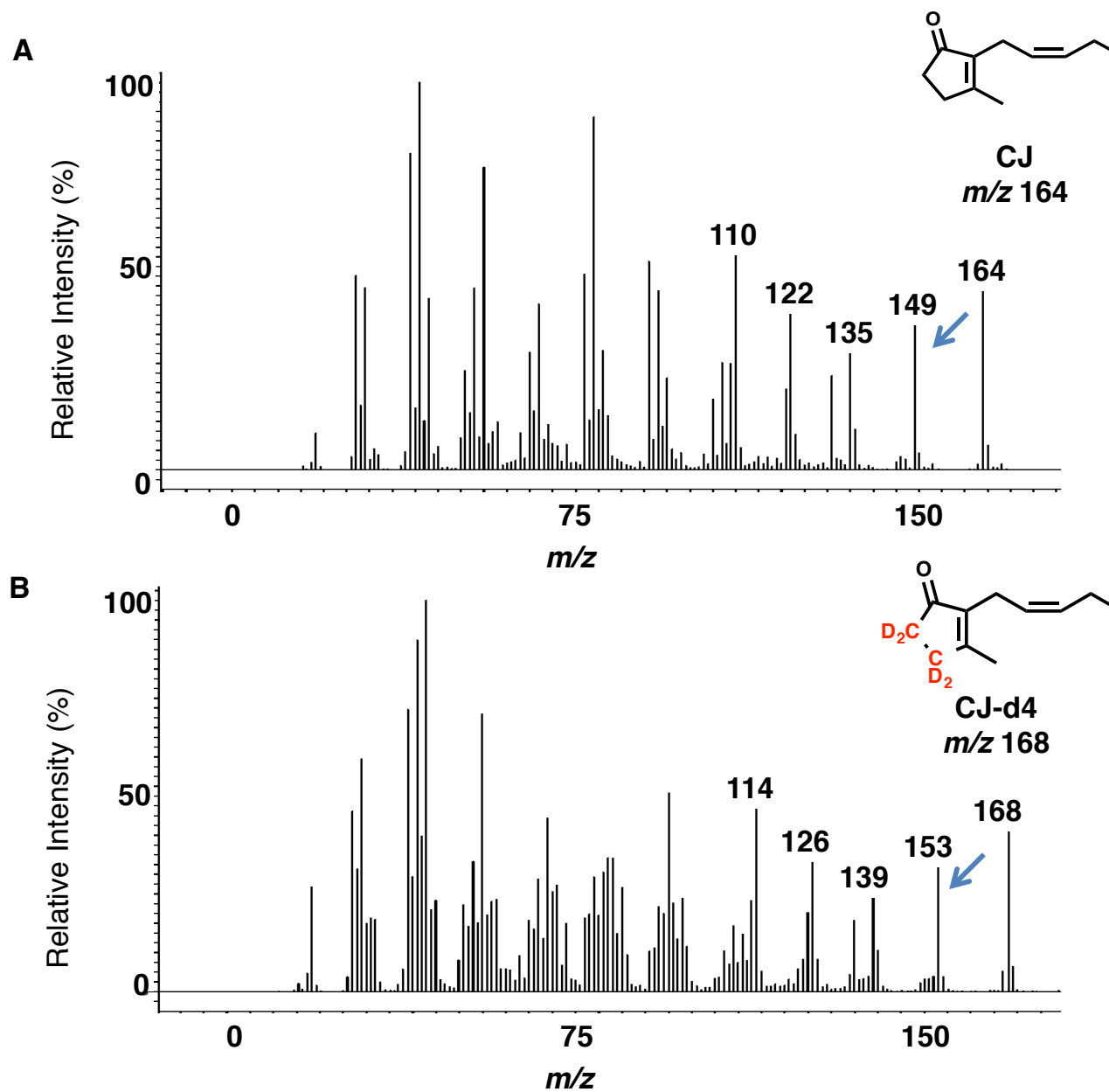


Figure S8. Representative GC-MS chromatograms analyzing fungal-derived CJ and CJ-d4 using *iso*-OPDA-d8 as a substrate for the feeding experiment.

A: MS chromatogram for analyzing CJ; B: MS chromatogram for analyzing CJ-d4.

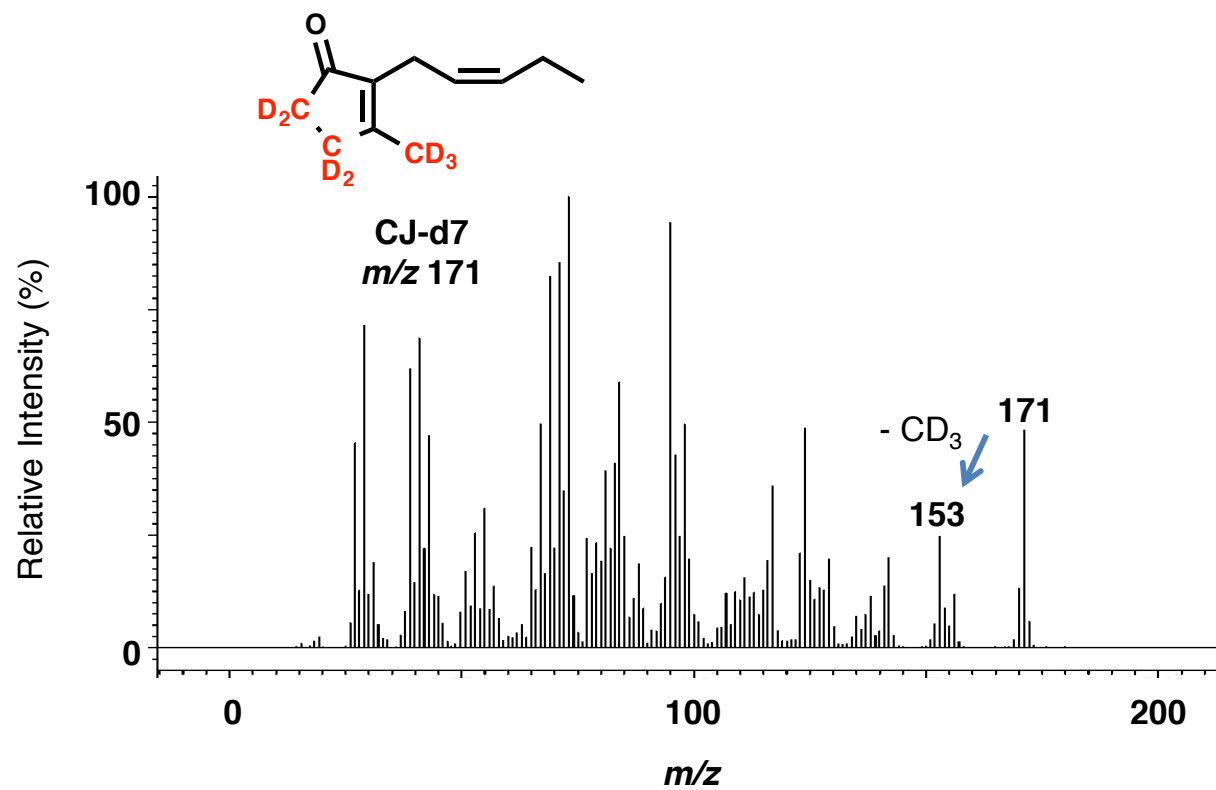


Figure S9. Representative GC-MS chromatogram analyzing authentic CJ-d7.

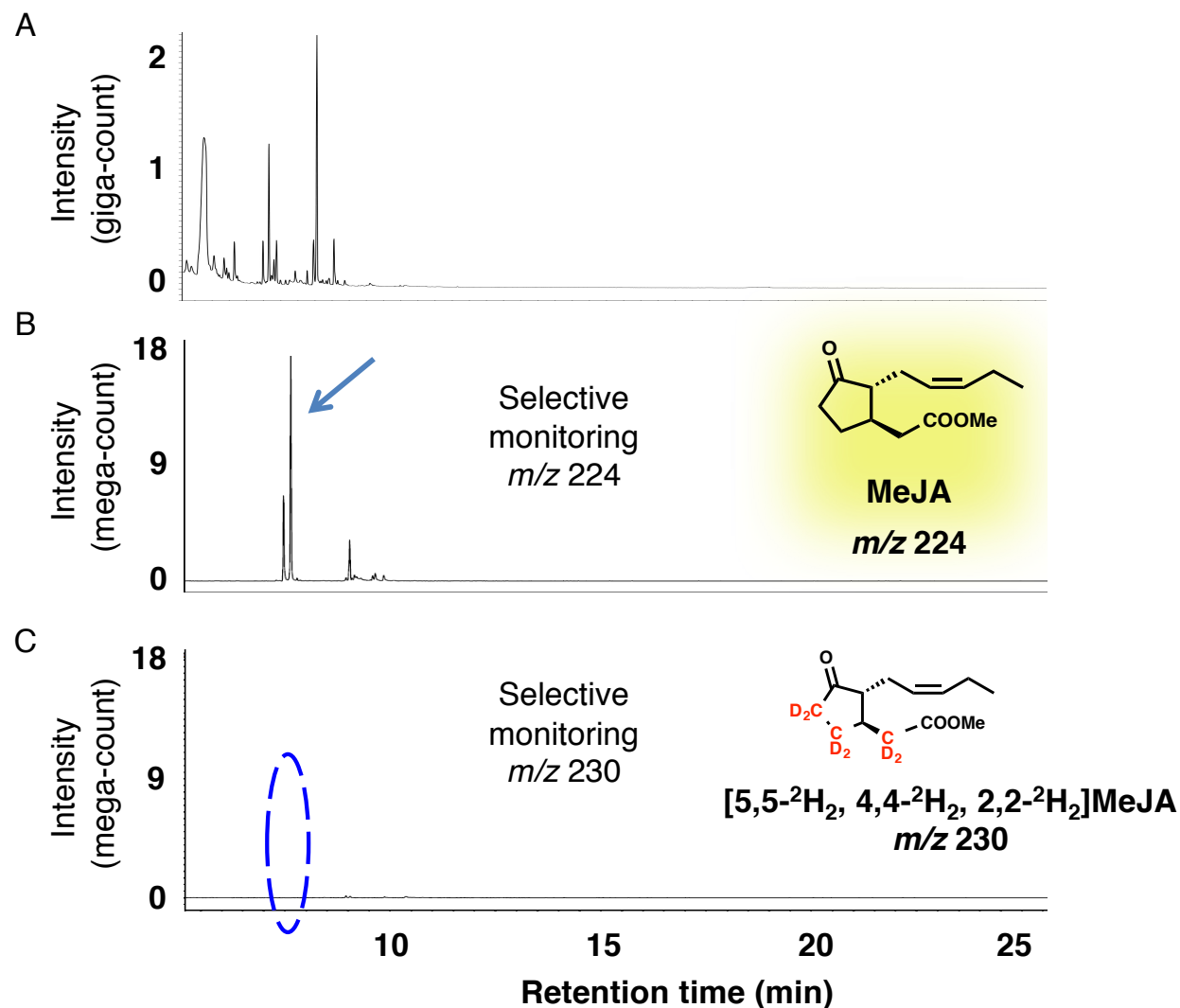


Figure S10. Representative GC-MS chromatograms for measuring MeJA in feeding experiment using *iso*-MeOPDA-d8. A: Representative GC-MS chromatogram monitoring total ion. B: Representative GC-MS chromatogram for measuring fungal derived MeJA using selected ion monitoring at m/z 224. C: Representative GC-MS chromatogram for measuring fungal derived [5,5- $^2\text{H}_2$, 4,4- $^2\text{H}_2$, 2,2- $^2\text{H}_2$]MeJA selected ion monitoring at m/z 230. MS chart of the peak indicated by arrow gives almost same feature with that of authentic MeJA given in Supplementary Figure S3.