





Thermal Upgrade of Enzymatically Synthesized Aliphatic and Aromatic Oligoesters

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Figure S1. Thermal upgrade of poly(1,4-butylene isophthalate) (PBI) conducted in air at 140 °C (left), 160 °C (centre), and 180 °C (right).



Figure S2. Enzymatically synthesized poly(1,4-butylene adipate) (PBA) before conducting any thermal upgrade.



Figure S3. Thermal upgrade of poly(1,4-butylene adipate) (PBA) conducted in air at 140 °C (left), 160 °C (centre), and 180 °C (right).



Figure S4. Thermal upgrade of poly(1,4-butylene 2,5-furanoate) (PBF) conducted in air at 140 °C (left), 160 °C (centre), and 180 °C (right).



Figure S5. Thermal upgrade of poly(1,4-butylene 2,4-pyridinoate) (PBP) conducted in air at 140 °C (left), 160 °C (centre), and 180 °C (right).



Figure S6. ¹H-NMR analysis of poly(1,4-butylene adipate) after the initial, solventless enzymatic synthesis step.



Figure S7. ¹H-NMR analysis of poly(1,4-butylene adipate) after the thermal upgrade conducted at 150 °C under vacuum.



Figure S8. ¹H-NMR analysis of poly(1,4-butylene adipate) after the thermal upgrade conducted at 140 °C under air.



Figure S9. ¹H-NMR analysis of poly(1,4-butylene adipate) after the thermal upgrade conducted at 160 °C under air.



Figure S10. ¹H-NMR analysis of poly(1,4-butylene adipate) after the thermal upgrade conducted at 180 °C under air.



Figure S11. ¹H-NMR analysis of poly(1,4-butylene isophthalate) after the initial, solventless enzymatic synthesis step.

Figure S12. ¹H-NMR analysis of poly(1,4-butylene isophthalate) after the thermal upgrade conducted at 150 °C under vacuum.

Figure S13. ¹H-NMR analysis of poly(1,4-butylene isophthalate) after the thermal upgrade conducted at 140 °C under air.

Figure S14. ¹H-NMR analysis of poly(1,4-butylene isophthalate) after the thermal upgrade conducted at 160 °C under air.

Figure S15. ¹H-NMR analysis of poly(1,4-butylene isophthalate) after the thermal upgrade conducted at 180 °C under air.

Figure S16. ¹H-NMR analysis of poly(1,4-butylene 2,5-furanoate) after the initial, solventless enzymatic synthesis step.

Figure S17. ¹H-NMR analysis of poly(1,4-butylene 2,5-furanoate) after the thermal upgrade conducted at 150 °C under vacuum.

Figure S18. ¹H-NMR analysis of poly(1,4-butylene 2,5-furanoate) after the thermal upgrade conducted at 140 °C under air.

Figure S19. ¹H-NMR analysis of poly(1,4-butylene 2,5-furanoate) after the thermal upgrade conducted at 160 °C under air.

Figure S20. ¹H-NMR analysis of poly(1,4-butylene 2,5-furanoate) after the thermal upgrade conducted at 180 °C under air.

Figure S21. ¹H-NMR analysis of poly(1,4-butylene 2,4-pyridinedicarboxylate) after the initial, solventless enzymatic synthesis step.

Figure S22. ¹H-NMR analysis of poly(1,4-butylene 2,4-pyridinedicarboxylate) after the thermal upgrade conducted at 150 °C under vacuum.

Figure S23. ¹H-NMR analysis of poly(1,4-butylene 2,4-pyridinedicarboxylate) after the thermal upgrade conducted at 140 °C under air.

Figure S24. ¹H-NMR analysis of poly(1,4-butylene 2,4-pyridinedicarboxylate) after the thermal upgrade conducted at 160 °C under air.

Figure S25. ¹H-NMR analysis of poly(1,4-butylene 2,4-pyridinedicarboxylate) after the thermal upgrade conducted at 180 °C under air.

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