Synthesis and characterization of fully biobased polyesters with tunable branched architectures

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Carboxyl terminated
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AdiA/BTO(-COOH)

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hydroxyl terminated

SucA/BTO(-OH)

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AdiA/BTO(-OH)

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AdiA/HTO(-OH)

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Table S1: $^1$H NMR chemical shifts of acid-ended branched polyesters in DMSO-$d_6$ (major peaks only). Ranges indicate regions where multiple peaks are found. (\*: Chemical shifts read from HSQC; ** not observed)

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<th>4</th>
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<td>1.56</td>
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<td>1.51</td>
<td>12.01</td>
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<td>4.23</td>
<td>5.08</td>
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Table S2: $^{13}$C NMR chemical shifts of acid-ended branched polyesters in DMSO-$d_6$. Ranges indicate regions where multiple peaks are found. (** not observed)

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<th>4'</th>
<th>5</th>
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<th>5'</th>
<th>6'</th>
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<th>COOR</th>
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<td></td>
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<td>173.82</td>
<td>171.8-172.5</td>
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<td>SucA/HTO (-COOH)</td>
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<td>AdiA/HTO (-COOH)</td>
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**Table S3**: $^1$H NMR chemical shifts of OH-ended branched polyesters in DMSO-$d_6$. Ranges indicate regions where multiple peaks are found. (*: Chemical shifts read from HSQC; ** not observed; *** OH group signals are observed at 4.98 (m), 4.76 (m), 4.58(m), 4.54(t), 4.46(t), 4.40(t), 4.37(d), 4.34(t))

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<th>2</th>
<th>2'</th>
<th>3</th>
<th>3'</th>
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<th>4'</th>
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<th>$^{*'}$</th>
<th>$^{*''}$</th>
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<tbody>
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**Table S4**: $^{13}$C NMR chemical shifts of OH-ended branched polyesters in DMSO-$d_6$. Ranges indicate regions where multiple peaks are found.