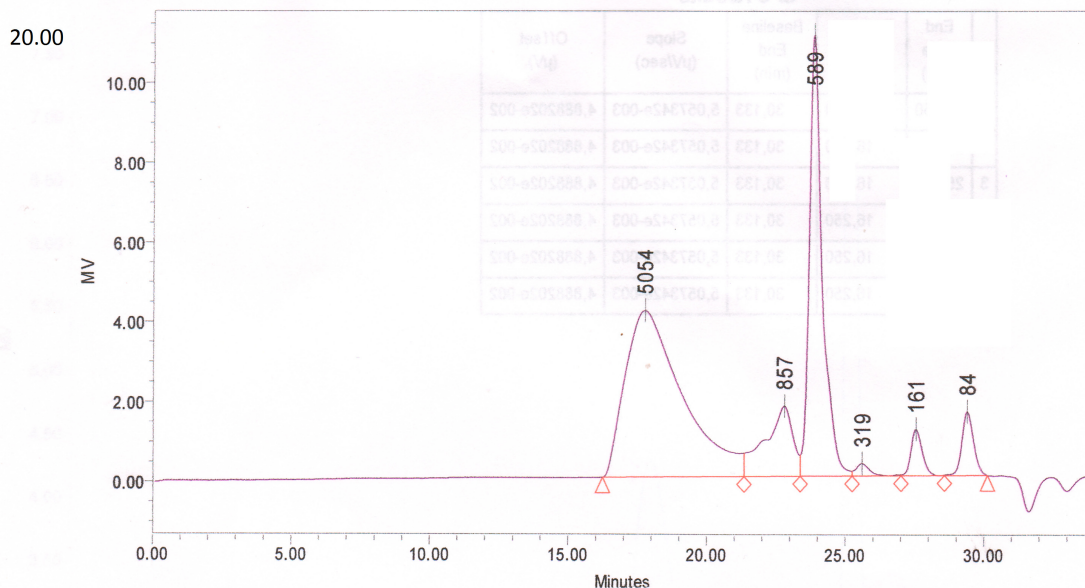


SAMPLE INFORMATION

| | | | |
|-------------------|---------------|------------------|---------------------|
| Sample Name: | Pla+OUM | Acquired By: | System |
| Sample Type: | Broad Unknown | Date Acquired: | 24.01.2019 13:40:31 |
| Vial: | 1 | Acq. Method: | base IR UV |
| Injection #: | 1 | Date Processed: | 24.01.2019 15:10:19 |
| Injection Volume: | 20.00 ul | Channel Name: | 410 |
| Run Time: | 34.00 Minutes | Sample Set Name: | |

Autoscaled Chromatogram



GPC Results

| Dist Name | Elution Volume (ml) | Retention Time (min) | Adjusted RT (min) | Mn | Mw | MP | Mz | Mz+1 | Mz/Mw |
|-----------|---------------------|----------------------|-------------------|------|------|------|------|------|----------|
| 1 | 17.757 | 17.757 | 17.757 | 3777 | 4367 | 5054 | 4868 | 5272 | 1.114730 |
| 2 | 22.800 | 22.800 | 22.800 | | | 857 | | | |
| 3 | 23.862 | 23.862 | 23.862 | | | 589 | | | |
| 4 | 25.606 | 25.606 | 25.606 | | | 319 | | | |
| 5 | 27.547 | 27.547 | 27.547 | | | 161 | | | |
| 6 | 29.392 | 29.392 | 29.392 | | | 84 | | | |

GPC Results

| Mz+1/Mw | Area (µV*sec) | % Area | Height (µV) | % Height | Integration Type | Peak Codes | Points Across Peak | Start Time (min) |
|----------|---------------|--------|-------------|----------|------------------|------------|--------------------|------------------|
| 1.207345 | 597705 | 51.05 | 4168 | 20.80 | bv | | 305 | 16.250 |

Figure S1. The initial SEC elution profiles of the re-precipitation-purified product mixture, obtained at the second stage.

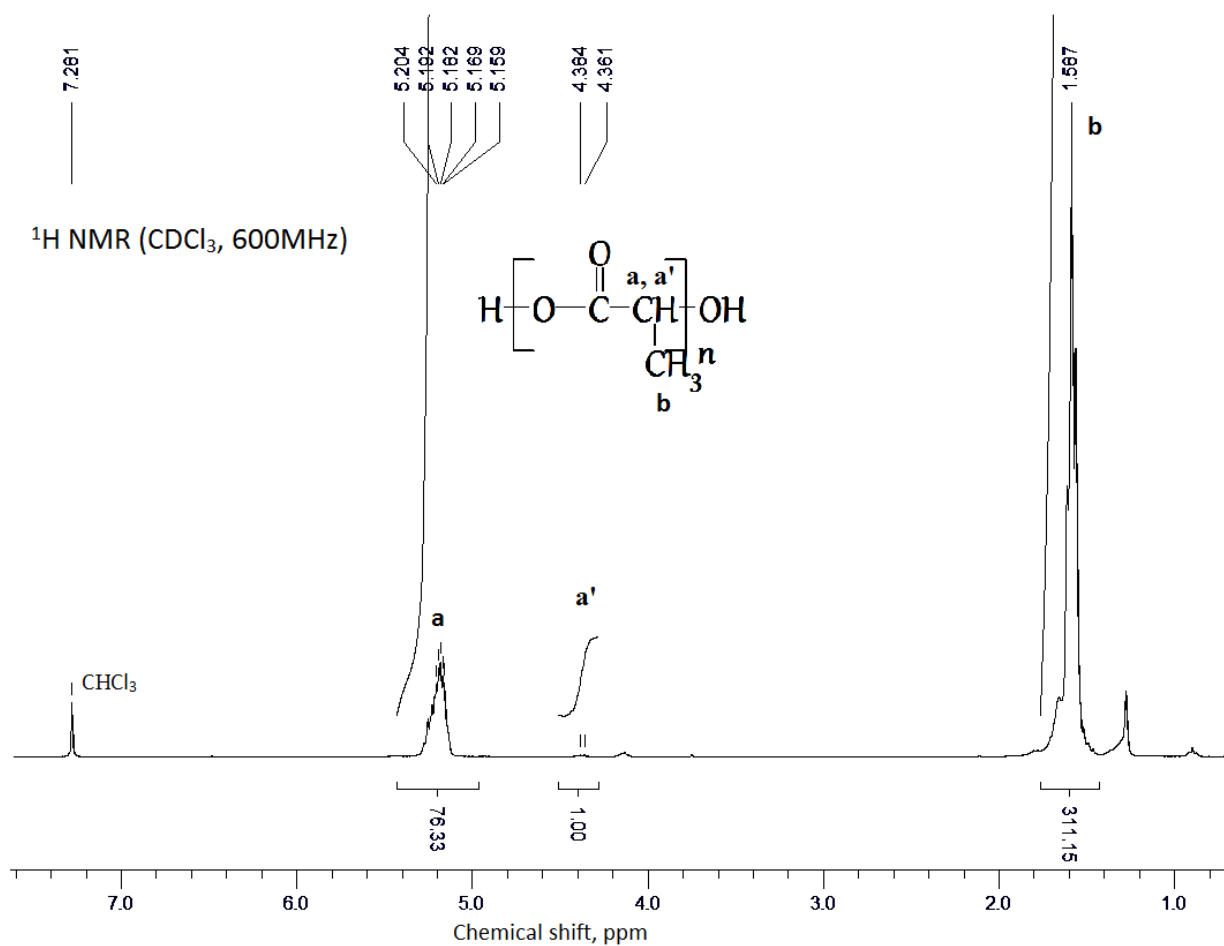


Figure S2a. $^1\text{H-NMR}$ spectrum of the initial polylactide.
 $^1\text{H-NMR ((CDCl}_3)$ 600 MHz) δ , ppm: 1.48 – 1.66 (m, 3H, CH₃), 4.37 (d, 1H, CH), 5.27 – 5.16 (m, 1H, CH).

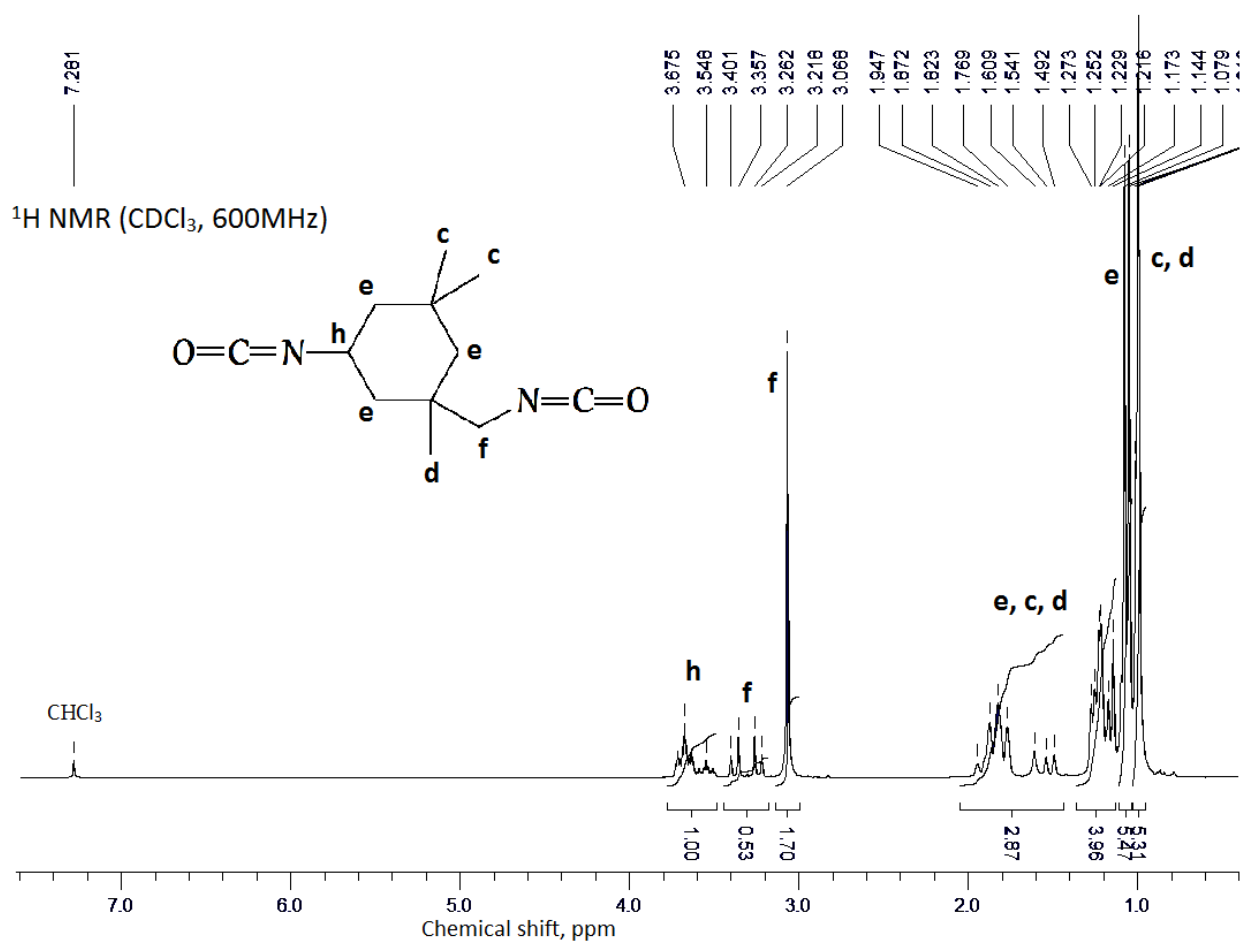


Figure S2b. ¹H-NMR spectrum of the initial 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate.

¹H-NMR ((CDCl₃) 600 MHz) δ , ppm: 0.99, 1.01 (d, 9H, CH₃_{c,d}), 1.05, 1.08 (d, 6H, CH₂_e), 1.09 – 1.94 (15H, CH₃_{c,d}, CH₂_e), 3.07 (s, 2H, CH₂_f), 3.3 (q, 2H, CH_f), 3.55, 3.67 (m, 1H, CH_h).

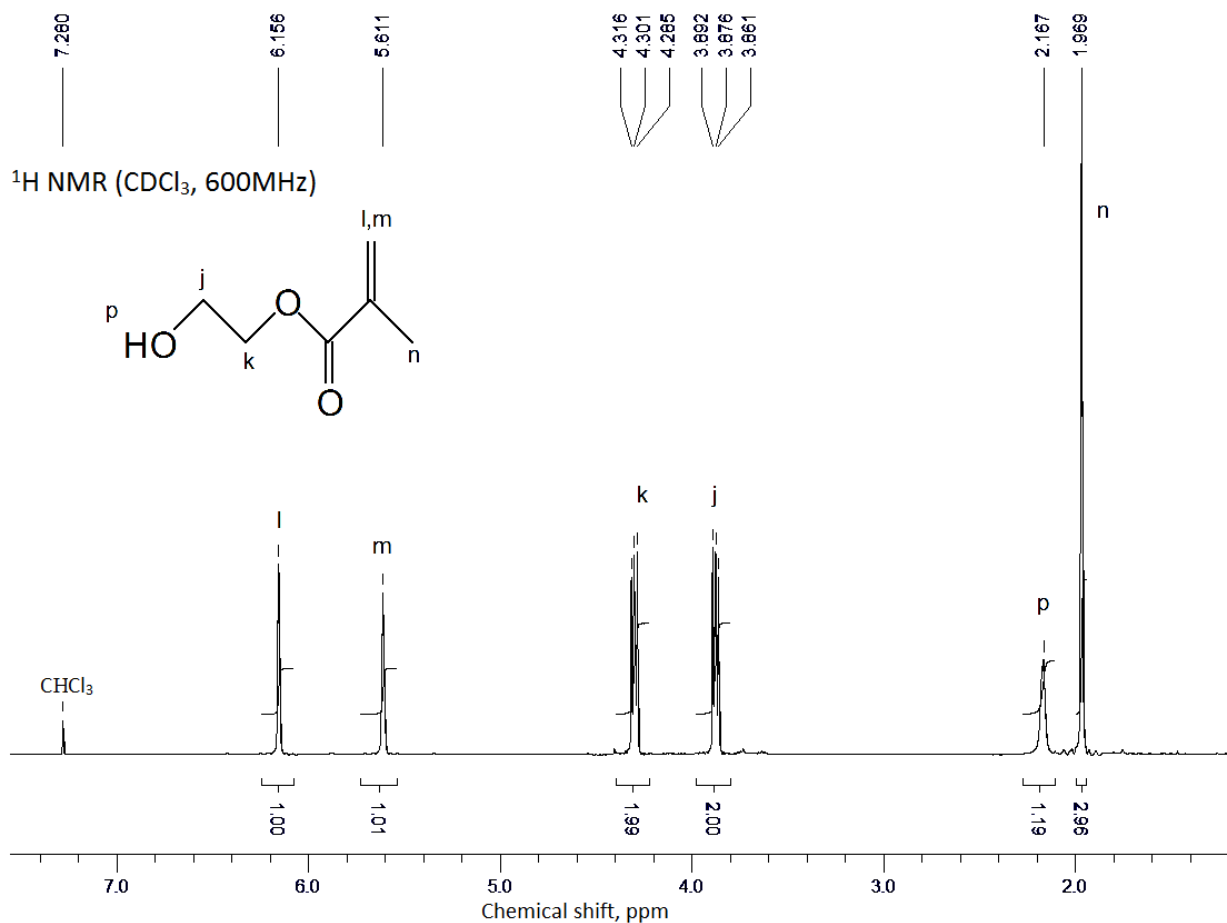


Figure S2c. ¹H-NMR spectrum of the initial ethyleneglycol monomethacrylate.

¹H-NMR ((CDCl₃) 600 MHz) δ, ppm: 1.97 (s, 3H, CH₃_n), 2.17 (s, 1H, OH_p), 3.87 (t, 2H, CH₂_j), 4.30 (t, 2H, CH₂_k), 5.61 (s, 1H, CH₂_{l,m}), 6.15 (s, 1H, CH₂_{l,m}).