

Supporting Information

Table X1. Yields of products with or without pieces of SUS316 after 24 h at 200 °C with 0.33 M glycerine with 0.40g NaOH and 0.44 g CO₂ in a Teflon-line batch reactor.

	Lactate (%)	Formate (%)
without pieces of SUS316	78.8%	77.0%
with pieces of SUS316	79.5%	78.2%

Table X2. Yields of products and remaining glycerine using CO₂.

	a	b	c
Lactate (%)	80.1%	82.6%	81.2%
Formate (%)	0.05%	79.8%	78.1%
Hydrogen (%)	84.5%	4.0%	3.8%
Pyruvate (%)	0.64%	2.5%	2.3%
Acetate (%)	2.0%	0.9%	0.7%
Acrylate (%)	2.2%	0.5%	0.4%
Remaining glycerine(%)	16.0%	14.1%	15.2%

a: 0.4 g NaOH; **b:** 0.4 g NaOH and 0.44 g CO₂; **c:** 0.84 g NaHCO₃ (temp.: 300 °C; reaction time: 60 min; glycerine: 0.33 M).

Fig. X1 HPLC chromatograms of solutions after reaction of 0.33 M glycerine and 0.25 M NaOH at 300 °C for 60 min (a) without or (b) with 0.44 g CO₂.

