Species	**Mass (mmol)**	**Carbon mass (mmol)**	**Carbon distribution (%)**	**Electron mass (mmol)**	**Electron distribution (%)**
Substrate					
Glucose ($C_6H_{12}O_6$) [a]	14.46	86.76		347.04	
Products					
Acetate ($C_2H_3O_2^-$)	4.86	9.73	11.6	38.92	10.5
Butyrate ($C_4H_7O_2^-$)	8.31	33.24	39.5	166.19	44.9
Hydrogen (H_2)	24.48	-	-	48.97	13.2
Carbon dioxide (CO_2)[b]	21.2	21.2	25.2	-	-
Biomass ($CH_{1.624}O_{0.456}N_{0.216}P_{0.033}S_{0.0047}$)[c]	19.87	19.87	23.6	115.65	31.3
Total Carbon mass		84.04			
Total Electron mass				369.72	
Carbon and electron recovery (%)		96.87		106.54	

[a] Fermented glucose = (Initial glucose - residual glucose)

[b] CO_2 in the liquid phase was ignored.

[c] P in biomass formula ignored

Table S2. Carbon and electron recoveries from anaerobic phase in one-put batch cultivation.

The carbon and electron masses (mmol) and distribution (%) of *C. butyricum* biomass, gaseous and liquid metabolites generated from glucose in 1-L bioreactor are presented.