Table S8. Biomass composition of iGD1575b and iGD1575c. ^a

Component	Percent dry	Composition - %
	mass	
DNA	2.8	Guanine - 31.05
		Cytosine - 31.05
		Adenine - 18.95
		Thymine - 18.95
RNA	7.1	Guanine - 28.09
		Cytosine - 28.09
		Adenine - 21.91
		Uracil - 21.91
Protein	49.3	Lysine - 3.20
		Alanine - 12.01
		Leucine 10.19
		Phenylalanine - 3.94
		Arginine 7.33
		Glutamine - 2.90
		Glycine - 8.46
		Methionine - 2.44
		Valine - 7.58
		Proline - 5.03
		Tyrosine - 2.29
		Aspartate - 5.31
		Glutamate - 5.84
		Histidine - 2.11
		Threonine - 5.15
		Cysteine - 0.93
		Isoleucine - 5.48
		Tryptophan - 1.38
		Asparagine - 2.64
		Serine - 5.80
Lipid	12.8	PG(36:2) - 7.82
		CL(36:2) - 3.11
		PE(36:2) - 25.35
		PC(36:2) - 59.92
		SL(36:2) - 2.00
		OL(36:1) - 1.80
PHB	17.6	N/A
Glycogen	0.4	N/A
LPS	3	N/A
Cell wall	2	N/A
LMW	4	N/A
Succinoglycan b		
HMW	1	N/A
Succinoglycan b		
Putrescine	Trace	N/A

Spermidine	Trace	N/A
Vitamins, cofactors,	Trace	Polyphosphate
coenzymes, ions, and		Pantothenate
other		Coenzyme A
		NAD ⁺ ; NADH
		NADP ⁺ ; NADPH
		FAD^+ , $FADH2$
		Folate; Tetrahydrofolate; 5,10-Methylenetetrahydrofolate
		Thiamine diphosphate
		Riboflavin
		Biotin
		Heme A
		Vitamin B12 coenzyme
		Undecaprenyl diphosphate
		Ubiquinone-8
		Pyridoxal phosphate
		Glutathionine reduced
		Glutathionine oxidized
		Holo-carboxylase
		Co ²⁺ (Cobalt)
		Mg ⁺ (Magnesium)
		Ca ²⁺ (Calcium)
		Mn ²⁺ (Manganese)
		Fe^{3+} (Iron)
		Fe^{2+} (Iron)
		Zn^{2+} (Zinc)
		K ⁺ (Potassium)
		Na ⁺ (Sodium)

^a The composition of all components was set as described previously for iGD1575 [1].The exception are the vitamins, cofactors, coenzymes, and ions that are newly added, and were included at an equal, trace concentration in the biomass.

b Succinoglycan was removed from the biomass of iGD1575c.

REFERENCES

1. diCenzo GC, Checcucci A, Bazzicalupo M, Mengoni A, Viti C, Dziewit L, et al. Metabolic modelling reveals the specialization of secondary replicons for niche adaptation in Sinorhizobium meliloti. Nat Commun. 2016;7: 12219. doi:10.1038/ncomms12219