

**Table S7.** List of unique genera in separation followed with maturation in a heap (S-MH) or in separation with maturation in an opened or enclosed container (S-MB) production.

S-MH	OTU	Phylum	Genus
	114	Proteobacteria	Roseomonas
	1 024	Bacteroidetes	Brumimicrobium
	1 229	Firmicutes	Geobacillus
	1 266	Chloroflexi	Litorilinea
	1 327	Bacteroidetes	Parabacteroides
	1 401	Proteobacteria	Oceanospirillaceae unclassified
	1 605	Bacteroidetes	Cytophagaceae unclassified
	1 634	Verrucomicrobia	Opitutus
	1 729	Proteobacteria	Castellaniella
	1 754	Proteobacteria	Alteromonadaceae unclassified
	1 953	Proteobacteria	Legionella
	2 305	Plancotomycetes	Blastopirellula
	2 769	Proteobacteria	Acetobacteraceae unclassified
	3 172	Proteobacteria	Oceanisphaera
	3 249	Proteobacteria	Rhodoligotrophos
S-MB	10	Proteobacteria	Neorhizobium
	845	Actinobacteria	Promicromonospora
	1 068	Chloroflexi	Anaerolineaceae unclassified
	4 473	Firmicutes	Peptostreptococcaceae unclassified