

TABLE S1. Number of classified reads per sample (in bold). Percentage of assigned reads to respective taxonomic branches within *Bacteria* of 16S rRNA gene fragments amplified from the DNA of the bacterial communities in traditional Oscypek during cheese preparation

Taxon	III (curd)	III (fresh)	III (smoked)	Total
Bacteria	10572	25692	21185	57449
Actinobacteria	1.334%	1.203%	0.552%	0.987%
Actinobacteria	1.334%	1.203%	0.552%	0.987%
Actinomycetales	0.104%	0.160%	0.028%	0.101%
Micrococcaceae	0.009%	0.012%	0.000%	0.007%
Kocuria	0.009%	0.004%	0.000%	0.003%
unclassified	0.000%	0.008%	0.000%	0.003%
Sanguibacteraceae	0.000%	0.012%	0.009%	0.009%
Sanguibacter	0.000%	0.012%	0.009%	0.009%
unclassified	0.095%	0.136%	0.019%	0.085%
unclassified	0.095%	0.136%	0.019%	0.085%
Bifidobacteriales	1.012%	0.813%	0.434%	0.710%
Bifidobacteriaceae	1.012%	0.813%	0.434%	0.710%
Bifidobacterium	0.095%	0.023%	0.000%	0.028%
unclassified	0.918%	0.790%	0.434%	0.682%
unclassified	0.218%	0.230%	0.090%	0.176%
unclassified	0.218%	0.230%	0.090%	0.176%
unclassified	0.218%	0.230%	0.090%	0.176%
Bacteroidetes	0.009%	0.039%	0.019%	0.026%
Flavobacteria	0.009%	0.039%	0.019%	0.026%
Flavobacteriales	0.009%	0.039%	0.019%	0.026%
Flavobacteriaceae	0.009%	0.039%	0.019%	0.026%
Chryseobacterium	0.000%	0.004%	0.000%	0.002%
unclassified	0.009%	0.035%	0.019%	0.024%
Firmicutes	97.966%	97.879%	99.160%	98.367%
Bacilli	97.787%	97.696%	98.815%	98.125%
Bacillales	0.019%	0.012%	0.000%	0.009%
Bacillaceae	0.019%	0.004%	0.000%	0.005%
Exiguobacterium	0.019%	0.004%	0.000%	0.005%
Staphylococcaceae	0.000%	0.004%	0.000%	0.002%
Staphylococcus	0.000%	0.004%	0.000%	0.002%
unclassified	0.000%	0.004%	0.000%	0.002%
unclassified	0.000%	0.004%	0.000%	0.002%

Taxon	III (curd)	III (fresh)	III (smoked)	Total
Lactobacillales	96.699%	96.738%	97.404%	96.976%
Carnobacteriaceae	0.000%	0.012%	0.000%	0.005%
unclassified	0.000%	0.012%	0.000%	0.005%
Enterococcaceae	0.227%	0.113%	0.042%	0.108%
Enterococcus	0.095%	0.004%	0.000%	0.019%
Tetragenococcus	0.000%	0.054%	0.000%	0.024%
unclassified	0.132%	0.054%	0.042%	0.064%
Lactobacillaceae	0.870%	1.646%	1.865%	1.584%
Lactobacillus	0.813%	1.522%	1.680%	1.450%
Pediococcus	0.028%	0.035%	0.071%	0.047%
unclassified	0.028%	0.090%	0.113%	0.087%
Leuconostocaceae	3.140%	2.386%	2.167%	2.444%
Leuconostoc	3.121%	2.355%	2.115%	2.407%
Weissella	0.019%	0.027%	0.052%	0.035%
unclassified	0.000%	0.004%	0.000%	0.002%
Streptococcaceae	71.699%	74.408%	80.042%	75.987%
Lactococcus	64.936%	68.846%	75.473%	70.570%
Streptococcus	6.356%	5.181%	4.130%	5.010%
unclassified	0.407%	0.381%	0.439%	0.407%
unclassified	20.762%	18.173%	13.288%	16.848%
unclassified	20.762%	18.173%	13.288%	16.848%
unclassified	1.069%	0.946%	1.411%	1.140%
unclassified	1.069%	0.946%	1.411%	1.140%
unclassified	1.069%	0.946%	1.411%	1.140%
unclassified	0.180%	0.183%	0.345%	0.242%
unclassified	0.180%	0.183%	0.345%	0.242%
unclassified	0.180%	0.183%	0.345%	0.242%
unclassified	0.180%	0.183%	0.345%	0.242%
Proteobacteria	0.605%	0.775%	0.198%	0.531%
Betaproteobacteria	0.000%	0.008%	0.005%	0.005%
Burkholderiales	0.000%	0.008%	0.000%	0.003%
Comamonadaceae	0.000%	0.004%	0.000%	0.002%
unclassified	0.000%	0.004%	0.000%	0.002%
Oxalobacteraceae	0.000%	0.004%	0.000%	0.002%
unclassified	0.000%	0.004%	0.000%	0.002%
unclassified	0.000%	0.000%	0.005%	0.002%
unclassified	0.000%	0.000%	0.005%	0.002%
unclassified	0.000%	0.000%	0.005%	0.002%

Taxon	III (curd)	III (fresh)	III (smoked)	Total
Epsilonproteobacteria	0.000%	0.004%	0.000%	0.002%
Campylobacteriales	0.000%	0.004%	0.000%	0.002%
unclassified	0.000%	0.004%	0.000%	0.002%
unclassified	0.000%	0.004%	0.000%	0.002%
Gammaproteobacteria	0.605%	0.763%	0.194%	0.524%
Enterobacteriales	0.047%	0.016%	0.052%	0.035%
Enterobacteriaceae	0.047%	0.016%	0.052%	0.035%
Buttiauxella	0.000%	0.000%	0.005%	0.002%
unclassified	0.047%	0.016%	0.047%	0.033%
Oceanospirillales	0.000%	0.004%	0.000%	0.002%
Halomonadaceae	0.000%	0.004%	0.000%	0.002%
Chromohalobacter	0.000%	0.004%	0.000%	0.002%
Pseudomonadales	0.501%	0.708%	0.104%	0.447%
Moraxellaceae	0.501%	0.708%	0.104%	0.447%
Acinetobacter	0.009%	0.016%	0.009%	0.012%
Enhydrobacter	0.492%	0.658%	0.090%	0.418%
unclassified	0.000%	0.035%	0.005%	0.017%
unclassified	0.057%	0.035%	0.038%	0.040%
unclassified	0.057%	0.035%	0.038%	0.040%
unclassified	0.057%	0.035%	0.038%	0.040%
unclassified	0.085%	0.105%	0.071%	0.089%
unclassified	0.085%	0.105%	0.071%	0.089%
unclassified	0.085%	0.105%	0.071%	0.089%
unclassified	0.085%	0.105%	0.071%	0.089%
unclassified	0.085%	0.105%	0.071%	0.089%