

Table S1. Incidence (%) of the bacterial taxonomic groups in *Queijo Serra da Estrela* PDO cheese samples according to producers.

ASVs	Producer 1	Producer 2	Producer 3	Producer 4
<i>Acinetobacter guillouiae</i>	0.05912072	0.02799858	0	0.35507628
<i>Brevibacterium</i>	0.81449714	0.03428571	0	0.05332385
<i>Carnobacterium</i>	1.10235223	0.05799503	1.60816572	0.31531948
<i>Citrobacter</i>	2.92450434	3.22588709	0.088767	0.28541773
<i>Enterobacteriaceae</i>	9.06370633	1.60220618	0.16718419	3.036131
<i>Enterococcus</i>	2.03783863	8.73728962	0.50473636	15.8841362
<i>Gluconacetobacter</i>	0.31019604	0.26741153	0.0413993	1.27833256
<i>Lactocaseibacillus casei</i> group	0.10084998	6.2180329	9.46629029	0.77385974
<i>Lactiplantibacillus plantarum</i> group	2.32547611	5.83007693	3.64423762	0.71128859
<i>Loigolactobacillus coryniformis</i>	0.03408316	2.20222038	3.89658619	4.1640759
<i>Lactococcus garvieae</i>	0.68768371	0.03942715	0	0.10520779
<i>Lactococcus lactis</i>	25.512839	30.6271133	25.6807807	2.85675322
<i>Lactococcus piscium</i>	5.19020265	2.29823174	36.5243568	42.3684758
<i>Latilactobacillus sakei</i>	21.8930091	10.2205705	1.93135645	10.6894878
<i>Leuconostoc lactis</i>	0.10919583	4.21559001	1.14162523	0.03554924
<i>Leuconostoc mesenteroides</i>	14.6505375	14.166486	4.91600955	10.7757522
<i>Levilactobacillus brevis</i>	1.72119973	0.76083797	1.41310606	0.16243532
<i>Micrococcaceae</i>	0.16137021	0.29684933	0.55488868	0.16387524
<i>Serratia</i>	4.14857545	6.37736063	7.99856226	4.267236
<i>Staphylococcus equorum</i>	0.18605789	0.24340869	0.20341347	0.44857301
<i>Staphylococcus sciuri</i>	0	0.51367026	0	0
<i>Streptococcus</i>	5.03281336	0.61796662	0.00676682	0.76563629

ASVs, amplicon sequence variants

Table S2. Incidence (%) of the fungal taxonomic groups in *Queijo Serra da Estrela* PDO cheese samples according to producers.

ASVs	Producer 1	Producer 2	Producer 3	Producer 4
<i>Aspergillus</i>	0.0000	0.0085	1.9418	0.0872
<i>Candida boidinii</i>	0.9618	15.4761	0.0000	0.1408
<i>Candida sake</i>	0.0017	0.2324	0.1378	0.4552
<i>Cladosporium variabile</i>	3.0565	0.7017	3.2920	2.8169
<i>Clavispora lusitaniae</i>	0.4127	0.2158	6.7394	1.0541
<i>Cutaneotrichosporon curvatus</i>	0.0000	0.0000	2.4974	1.4503
<i>Debaryomyces hansenii</i>	51.7352	15.1158	4.1062	11.0923
<i>Galactomyces geotrichum</i>	0.0000	30.3475	0.4306	0.0000
<i>Geotrichum</i>	0.9704	0.0000	0.0000	0.0000
<i>Kurtzmaniella zeylanoides</i>	9.1411	19.6062	0.0000	0.0000
<i>Lachancea thermotolerans</i>	0.3177	0.0000	1.9979	1.0039
<i>Metschnikowia fructicola</i>	0.0000	0.0000	8.1079	2.2409
<i>Naganishia albidosimilis</i>	0.0000	9.9964	0.0000	0.0000
<i>Nakazawaea wickerhamii</i>	0.1815	0.2111	0.3445	0.3215
<i>Penicillium</i>	0.5776	2.4622	0.1550	0.0000
<i>Pichia fermentans</i>	0.2335	0.1436	0.7234	4.3336
<i>Protomyces inouyei</i>	0.0035	0.7666	5.0988	0.0000
<i>Starmerella</i>	0.0000	0.5422	17.6603	34.0855
<i>Symbiotaphrina</i>	0.0350	0.0408	2.2378	0.7687
<i>Ustilago</i>	0.5346	0.8299	0.3961	1.2028
<i>Vishniacozyma victoriae</i>	23.9039	1.0897	0.1895	2.0140

ASVs, amplicon sequence variants