

Supplementary Table 2. Relative abundance of top 10 genera by GOS/inulin, 3-FL, and LNT2 fermentation at T0, T14, T24, and T36. Control is set without GOS/inulin, 3-FL, or LNT2.

Taxonomy	<i>Escherichia-Shigella</i>	<i>Bifidobacterium</i>	<i>Bacteroides</i>	<i>Collinsella</i>	<i>Enterococcus</i>	<i>Sutterella</i>	<i>Citrobacter</i>	<i>Lachnospiraceae_NK4A136_group</i>	<i>Parabacteroides</i>	<i>UBA1819</i>
T ₀ -1	0.281233689	0.468105971	0.043226572	0.157580071	0.002040332	0.000347964	0.000332147	0.000253064	0.00113879	0.013317517
T ₀ -2	0.327386319	0.436362198	0.035618822	0.146982997	0.002166864	0.00072756	0.000458679	0.001265322	0.001328588	0.01102412
Control T ₁₄ -1	0.925614868	0.027141163	0.012257809	0.00186635	0.015041518	0.000427046	9.49E-05	0.002198497	0.000379597	0.000648478
Control T ₁₄ -2	0.851293001	0.070858047	0.03389482	0.009553183	0.013333333	0.000996441	9.49E-05	0.00072756	0.00109134	0.001724002
Control T ₂₄ -1	0.817002768	0.024974298	0.123274021	0.003131673	0.008287861	0.000585212	0.000205615	0.002214314	0.003194939	0.000838276
Control T ₂₄ -2	0.678386714	0.066967181	0.193973903	0.005314353	0.007718466	0.029244761	0.000110716	0.001834717	0.007101621	0.000664294
Control T ₃₆ -1	0.691814947	0.023060498	0.229561091	0.003226572	0.013380783	0.007639383	0.003558719	0.002862792	0.007813365	0.000616845
Control T ₃₆ -2	0.538473705	0.076567813	0.241929616	0.006026097	0.012858837	0.049853697	0.0323448	0.00072756	0.013823646	0.000743377
GOS/inulin T ₁₄ -1	0.731277185	0.233436141	0.009410834	0.004744958	0.00232503	0.000347964	0.000142349	0.003764334	0.000506129	0.000901542
GOS/inulin T ₁₄ -2	0.704230921	0.216797153	0.01681297	0.004934757	0.001771451	0.001296955	0.008050613	0.00719652	0.000964808	0.002182681
GOS/inulin T ₂₄ -1	0.623171214	0.308912614	0.013950178	0.00610518	0.00341637	0.001391854	0.003890866	0.002989324	0.001202056	0.001107157
GOS/inulin T ₂₄ -2	0.594211151	0.337935943	0.01635429	0.004982206	0.002261764	0.001043891	0.000126532	0.010011862	0.001360221	0.002973507
GOS/inulin T ₃₆ -1	0.540308422	0.428026888	0.00533017	0.010407276	0.006263345	0.000221431	0.000126532	0.000300514	0.000189798	0.000300514
GOS/inulin T ₃₆ -2	0.559731119	0.402672993	0.006184263	0.008857256	0.005519968	0.000332147	0.000110716	0.001518387	0.000221431	0.000253064
3-FL T ₁₄ -1	0.81143535	0.124808225	0.007497034	0.000838276	0.03881376	0.000205615	0.000142349	0.003716884	0.000158165	0
3-FL T ₁₄ -2	0.709149862	0.183376829	0.031190194	0.013507315	0.032676947	0.001107157	0.000110716	0.001107157	0.000806643	0.000173982
3-FL T ₂₄ -1	0.810850138	0.074748913	0.052953737	0.001992883	0.038339265	0.000901542	0.000158165	0.00346382	0.001170423	0
3-FL T ₂₄ -2	0.605725583	0.101953341	0.202720443	0.01257414	0.035587189	0.022586002	0.000142349	0.00346382	0.00346382	4.74E-05
3-FL T ₃₆ -1	0.724982206	0.097366548	0.079414788	0.005994464	0.054503756	0.008809806	0.004792408	0.005519968	0.002530645	0
3-FL T ₃₆ -2	0.50173191	0.102902333	0.196235666	0.016591538	0.071316726	0.03357849	0.049695532	0.000964808	0.006073547	0
LNT2 T ₁₄ -1	0.736559905	0.229798339	0.009347568	0.003669435	0.00760775	0.000205615	9.49E-05	0.003068406	0.000189798	1.58E-05
LNT2 T ₁₄ -2	0.724808225	0.20305259	0.011213919	0.003653618	0.006358244	0.000759193	0.008667457	0.008351127	0.000379597	0.000205615
LNT2 T ₂₄ -1	0.722910241	0.204887307	0.010691973	0.012068011	0.008983788	0.00077501	0.004064848	0.003448003	0.000442863	0
LNT2 T ₂₄ -2	0.68072756	0.218442072	0.017809411	0.009948596	0.011229735	0.000885726	0.000158165	0.016828786	0.000632661	0.000253064
LNT2 T ₃₆ -1	0.621984974	0.194590747	0.002356663	0.096559905	0.007497034	0	7.91E-05	0.01252669	0.000142349	0.001012258
LNT2 T ₃₆ -2	0.574614472	0.179565045	0.00227758	0.105227363	0.005172005	0	4.74E-05	0.019106366	4.74E-05	0.000427046