

AUC of mearmean GR stasd GR

KB1	24.21838	2.4011	0.11
YL2	17.29725	1.73447	0.06119
KB18	5.189074	0.94253	0.02671
YL27	15.04751	1.28361	0.04028
YL31	11.66415	1.12623	0.02328
YL32	13.60363	1.33026	0.04099
YL44	4.140818	0.36288	0.003093
YL45	2.743121	0.77769	0.02157
I46	18.01013	1.83106	0.07506
I48	16.07555	1.25604	0.04694
I49	15.29935	1.28155	0.02294
YL58	15.04497	1.64443	0.06202

\*GR: growth rate

\*\*AUC: area under the me.

an growth curve

strain	inSM	GR	std error	AUC
KB1	KB1sm	0.21160569	0.00398873	5.5556875
KB1	YL2sm	0.83763167	0.03244872	21.2229583
KB1	KB18sm	1.18450288	0.04660269	25.0793958
KB1	YL27sm	1.01893287	0.04776426	21.8311042
KB1	YL31sm	1.13666199	0.04935961	23.4667292
KB1	YL32sm	0.71858271	0.02781793	16.1365
KB1	YL44sm	1.31009449	0.07907059	23.4719583
KB1	YL45sm	1.33826563	0.08436416	24.174
KB1	l46sm	1.17966183	0.05530858	22.440375
KB1	l48sm	0.84298765	0.0363717	17.9066875
KB1	l49sm	1.05358504	0.05092584	22.16425
KB1	YL58sm	0.53636938	0.01502267	13.6088125
KB1	AAMsm	1.46649029	0.05721986	26.6149792
YL2	KB1sm	0.26108757	0.00734049	8.49758333
YL2	YL2sm	0.26108757	0.00734049	6.24377083
YL2	KB18sm	0.75570107	0.02998621	18.4933958
YL2	YL27sm	0.61243313	0.02615709	10.5670938
YL2	YL31sm	0.77954162	0.04273336	16.7539792
YL2	YL32sm	0.26383329	0.00649986	6.182
YL2	YL44sm	0.78053916	0.03297726	14.4582917
YL2	YL45sm	0.75297783	0.01962646	17.7790208
YL2	l46sm	0.81195354	0.04279341	15.8025625
YL2	l48sm	0.59868369	0.02116933	8.51266667
YL2	l49sm	0.42554826	0.01274359	8.97545833
YL2	YL58sm	0.27565021	0.00762679	6.45208333
YL2	AAMsm	0.87555223	0.04721352	19.6269167
KB18	KB1sm	0.07733036	0.00162392	3.88835417
KB18	YL2sm	0.24997229	0.00464847	6.86610417
KB18	KB18sm	0.11281306	0.00297138	4.87075
KB18	YL27sm	0.1706876	0.00419333	4.91085417
KB18	YL31sm	0.00876532	0.00014524	2.73733333
KB18	YL32sm	0.0434225	0.00112465	2.87629167
KB18	YL44sm	0.16357334	0.00321881	6.43047917
KB18	YL45sm	0.12435842	0.00191926	5.14725
KB18	l46sm	0.25771042	0.00443864	7.3618125
KB18	l48sm	0.0644577	0.00051551	3.947375
KB18	l49sm	0.25530187	0.00851701	8.3796875
KB18	YL58sm	0.06756967	0.00160958	3.55808333
KB18	AAMsm	0.49838416	0.01289529	10.961625
YL27	KB1sm	0.19998492	0.00308725	6.42752083
YL27	YL2sm	0.30020802	0.00533581	11.208125
YL27	KB18sm	0.50588342	0.0192034	15.2649375
YL27	YL27sm	0.14775454	0.00176926	6.80745833
YL27	YL31sm	0.03500074	0.00081844	3.41815625
YL27	YL32sm	0.08473676	0.00067697	5.0976875
YL27	YL44sm	0.38073963	0.01253098	13.0045
YL27	YL45sm	0.11165905	0.00090156	5.802475

\*GR: growth |

\*\*AUC: area |

YL27	I46sm	0.29640351	0.00656887	9.5941875
YL27	I48sm	0.19000041	0.0036335	5.349875
YL27	I49sm	0.3875882	0.01228905	11.4767292
YL27	YL58sm	0.10938785	0.00179224	4.77341667
YL27	AAMsm	0.51716658	0.01447353	17.5255625
YL31	KB1sm	0.20495324	0.00372005	6.75914583
YL31	YL2sm	0.3546758	0.00652633	12.0757708
YL31	KB18sm	0.34414488	0.00513142	13.5716667
YL31	YL27sm	0.29748387	0.00409565	11.3555208
YL31	YL31sm	0.00642055	0.00026819	2.70940625
YL31	YL32sm	0.02764236	0.00034933	3.262875
YL31	YL44sm	0.43539126	0.00777273	13.4880833
YL31	YL45sm	0.11978159	0.00297422	5.6754375
YL31	I46sm	0.34855488	0.00580371	10.7732917
YL31	I48sm	0.08309295	0.00198982	3.685
YL31	I49sm	0.36839606	0.01082958	12.9362708
YL31	YL58sm	0.05978167	0.00180595	3.733875
YL31	AAMsm	0.40858623	0.0080547	13.3260833
YL32	KB1sm	0.33100866	0.00800082	8.49403125
YL32	YL2sm	0.33392013	0.00758814	11.2136458
YL32	KB18sm	0.43015775	0.0073726	15.3352708
YL32	YL27sm	0.34852527	0.0081551	12.1216875
YL32	YL31sm	0.15677648	0.0027711	5.5191875
YL32	YL32sm	0.11569537	0.00163858	4.69916667
YL32	YL44sm	0.49669658	0.01374249	14.6343542
YL32	YL45sm	0.36543515	0.00684028	14.022375
YL32	I46sm	0.37696917	0.00760367	11.732375
YL32	I48sm	0.19228934	0.00409203	5.32335417
YL32	I49sm	0.43825762	0.01143187	13.6537708
YL32	YL58sm	0.12457596	0.00280382	4.5763125
YL32	AAMsm	0.48022842	0.01352114	18.1538333
YL44	KB1sm	0.014752	0.00026403	2.62691667
YL44	YL2sm	0.01534634	0.00029755	2.86225
YL44	KB18sm	0.11393881	0.00091314	5.446875
YL44	YL27sm	0.01295123	0.00050199	2.79095833
YL44	YL31sm	0.08185966	0.00053768	4.53272917
YL44	YL32sm	0.00482297	0.00037328	2.646425
YL44	YL44sm	0.03499341	0.00022098	3.250875
YL44	YL45sm	0.11642351	0.00092062	5.38710417
YL44	I46sm	0.0062471	0.00015965	2.6075
YL44	I48sm	0.01840945	0.00014572	2.790375
YL44	I49sm	0.01078292	0.00010809	2.88608333
YL44	YL58sm	0.01338552	0.00013047	2.58395833
YL44	AAMsm	0.14602663	0.00095534	6.8521875
YL45	KB1sm	0.26896813	0.00758617	5.99895
YL45	YL2sm	0.21995864	0.00524319	5.91585417
YL45	KB18sm	0.17042643	0.00192741	5.3323125
YL45	YL27sm	0.17405042	0.00218003	6.0675625

YL45	YL31sm	0.18271854	0.00319648	6.033
YL45	YL32sm	0.14511249	0.00183204	4.7955
YL45	YL44sm	0.18213872	0.00237776	6.05159375
YL45	YL45sm	0.08593059	0.00080882	4.0403125
YL45	I46sm	0.20208493	0.0032018	5.90316667
YL45	I48sm	0.18658556	0.0019847	5.99104167
YL45	I49sm	0.21770943	0.00332594	6.51266667
YL45	YL58sm	0.13352553	0.00120517	5.10252083
YL45	AAMsm	0.20030362	0.00556244	6.14775
I46	KB1sm	0.11460687	0.00171911	4.7245625
I46	YL2sm	0.71494332	0.02713261	18.3008542
I46	KB18sm	0.75446759	0.01900456	17.2547917
I46	YL27sm	0.66976073	0.0124713	17.0330833
I46	YL31sm	0.43243323	0.00803527	15.9402292
I46	YL32sm	0.07887182	0.00058061	4.5881875
I46	YL44sm	0.85676317	0.02214534	17.8732708
I46	YL45sm	0.56900824	0.0115663	17.1685938
I46	I46sm	0.07032015	0.00266576	3.22859375
I46	I48sm	0.17983041	0.000978	8.53891667
I46	I49sm	0.81595376	0.02475694	14.7625208
I46	YL58sm	0.06870001	0.00069101	4.1575
I46	AAMsm	0.86133384	0.0248517	20.4462292
I48	KB1sm	0.11861465	0.00145289	4.6373125
I48	YL2sm	0.34280497	0.00411758	11.9588958
I48	KB18sm	0.4427878	0.0070866	16.2810313
I48	YL27sm	0.20452295	0.00134368	8.62166667
I48	YL31sm	0.37155365	0.00596909	4.216625
I48	YL32sm	0.14306154	0.00145193	6.34360417
I48	YL44sm	0.29294043	0.00442104	13.0469792
I48	YL45sm	0.31137	0.00509615	13.0207917
I48	I46sm	0.26806711	0.01056557	12.4526458
I48	I48sm	0.1012805	0.00079742	4.216625
I48	I49sm	0.36005028	0.00192261	13.601125
I48	YL58sm	0.10177444	0.00108692	4.41341667
I48	AAMsm	0.44379724	0.00495771	19.0963333
I49	KB1sm	0.20218679	0.0076817	7.03179167
I49	YL2sm	0.35197405	0.00705797	9.01015
I49	KB18sm	0.46034598	0.01240255	11.4935833
I49	YL27sm	0.28259428	0.00394069	9.04222917
I49	YL31sm	0.3937726	0.00921541	8.785875
I49	YL32sm	0.26886398	0.00338471	7.0868125
I49	YL44sm	0.67449038	0.01532779	15.7629583
I49	YL45sm	0.48007861	0.00847299	11.7984375
I49	I46sm	0.34105473	0.00734621	7.48284375
I49	I48sm	0.2506178	0.00394907	7.66666667
I49	I49sm	0.25193236	0.00407361	6.52929167
I49	YL58sm	0.26585565	0.00445573	6.24227083
I49	AAMsm	0.82757309	0.02365905	18.0593333

YL58	KB1sm	0.09942467	0.00171845	5.67995
YL58	YL2sm	0.19100456	0.00269415	7.91091667
YL58	KB18sm	0.52466478	0.01171816	15.7356563
YL58	YL27sm	0.382011	0.00676	9.7823125
YL58	YL31sm	0.02608015	0.00019011	3.37184375
YL58	YL32sm	0.03245886	0.00076277	4.99275
YL58	YL44sm	0.76508511	0.01535385	12.4537708
YL58	YL45sm	0.1693566	0.00292749	8.33541667
YL58	I46sm	0.54629615	0.01291501	10.74225
YL58	I48sm	0.07277522	0.00162662	3.66383333
YL58	I49sm	0.64629629	0.0171322	12.5147083
YL58	YL58sm	0.04976414	0.00127915	3.8080625
YL58	AAMsm	0.72777502	0.02107826	15.8046458

rate  
under the mean growth curve

	KB1sm	YL2sm	KB18sm	YL27sm	YL31sm	YL32sm
KB1	-0.85572266	-0.42888461	-0.19238032	-0.30526953	-0.22499927	-0.51005476
YL2	-0.70126192	-0.70126192	-0.13532199	-0.29925009	-0.10804348	-0.69812025
KB18	-0.84604151	-0.50232539	-0.77539832	-0.66017478	-0.98254895	-0.91354931
YL27	-0.60965312	-0.41402951	-0.01257549	-0.71160065	-0.9316827	-0.83460388
YL31	-0.50238375	-0.13886482	-0.16443337	-0.27772398	-0.98441123	-0.93288572
YL32	-0.31352972	-0.30749168	-0.10790697	-0.27720247	-0.67486531	-0.76006236
YL44	-0.90209985	-0.89815559	-0.24385679	-0.91405049	-0.45674679	-0.96799285
YL45	0.3387345	0.09479966	-0.15173687	-0.13369923	-0.09055542	-0.2777319
I46	-0.86734127	-0.17244515	-0.12669537	-0.22474449	-0.49945372	-0.90870499
I48	-0.73164525	-0.22443526	0.00176672	-0.53728561	-0.13729541	-0.67633642
I49	-0.76596654	-0.59258612	-0.4671444	-0.67289398	-0.54420383	-0.68878695
YL58	-0.86253717	-0.73592039	-0.27460752	-0.47183818	-0.96394204	-0.95512294

\*GR: growth rate

\*\*SM: spent medium

\*\*\*values shown are dGR: growth in SM relative to growth in fresh medium



YL44sm	YL45sm	I46sm	I48sm	I49sm	YL58sm
-0.10674924	-0.08754155	-0.19568105	-0.42523279	-0.28164293	-0.63429175
-0.10690208	-0.13843795	-0.07095756	-0.31498228	-0.51308495	-0.68459926
-0.67433871	-0.75241244	-0.4869194	-0.87166994	-0.49171461	-0.86547425
-0.25684135	-0.78205478	-0.42145546	-0.62914171	-0.24347375	-0.78648787
0.05710829	-0.70917628	-0.1537261	-0.79825446	-0.10555271	-0.85485308
0.03008619	-0.24213349	-0.2182134	-0.60121612	-0.09110886	-0.74164513
-0.76776981	-0.22736735	-0.95854177	-0.8778276	-0.92844025	-0.91116837
-0.09344136	-0.57229786	0.00583687	-0.07130808	0.08360468	-0.33540366
-0.00828709	-0.34136662	-0.91860364	-0.79184429	-0.05552444	-0.92047898
-0.3372492	-0.20624871	-0.55789092	-0.77086217	-0.18541933	-0.76974468
-0.21926987	-0.44430367	-0.60522536	-0.7099071	-0.70838548	-0.69226912
0.05779347	-0.76585048	-0.24470037	-0.89938224	-0.1064419	-0.93119697

	KB1sm	YL2sm	KB18sm	YL27sm	YL31sm	YL32sm
KB1	-0.79125712	-0.20259346	-0.05769621	-0.17974371	-0.11828865	-0.39370608
YL2	-0.56704441	-0.68187714	-0.05775338	-0.46160195	-0.14637742	-0.68502439
KB18	-0.64527575	-0.37362351	-0.55565439	-0.55199579	-0.75028033	-0.73760353
YL27	-0.63324881	-0.36046989	-0.12899015	-0.61156977	-0.80496168	-0.70912845
YL31	-0.49278827	-0.09382445	0.01842877	-0.14787259	-0.79668398	-0.75515124
YL32	-0.53210812	-0.38229873	-0.15525991	-0.33227945	-0.69597675	-0.74114742
YL44	-0.61663094	-0.58228668	-0.20508962	-0.5926909	-0.33849896	-0.61378392
YL45	-0.02420398	-0.03772044	-0.13263999	-0.01304339	-0.01866537	-0.21995852
I46	-0.76892744	-0.10492766	-0.1560893	-0.16693278	-0.22038294	-0.77559737
I48	-0.75716215	-0.37375958	-0.14742632	-0.54851717	-0.7791919	-0.66781036
I49	-0.61062839	-0.5010807	-0.36356547	-0.49930438	-0.51349948	-0.60758172
YL58	-0.64061517	-0.49945625	-0.00436515	-0.38104829	-0.7866549	-0.68409605

\*AUC: area under the growth curve

\*\*SM: spent medium

\*\*\*values shown are dAUC: AUC in SM relative to AUC in fresh medium

YL44sm	YL45sm	I46sm	I48sm	I49sm	YL58sm
-0.11809218	-0.09171449	-0.15685168	-0.32719513	-0.16722648	-0.48867845
-0.26334371	-0.09415111	-0.19485252	-0.56627591	-0.54269647	-0.67126353
-0.41336443	-0.53043002	-0.32840135	-0.63989144	-0.23554332	-0.67540549
-0.25796961	-0.66891362	-0.45256037	-0.69473876	-0.34514346	-0.72763119
0.01215661	-0.57411061	-0.19156354	-0.72347464	-0.02925184	-0.71980702
-0.19386975	-0.22758049	-0.35372465	-0.70676418	-0.24788497	-0.74791481
-0.52557121	-0.2138125	-0.61946459	-0.59277603	-0.57880847	-0.62290023
-0.01564088	-0.34279818	-0.0397842	-0.02549036	0.05935776	-0.17001816
-0.12584024	-0.16030513	-0.84209344	-0.58237206	-0.27798321	-0.79666177
-0.31678093	-0.31815226	-0.34790383	-0.7791919	-0.28776248	-0.7688867
-0.12715724	-0.34668477	-0.58565227	-0.57547344	-0.63845334	-0.65434655
-0.21201835	-0.47259706	-0.32031062	-0.76817998	-0.20816268	-0.75905423

growth of	mean ph in SM	sd ph in SM	delta pH_SM	sd delta ph_SM
I46	6.75	0.13	-0.25	0.03
I48	5.85	0.09	-1.15	0.02
I49	6.90	0.05	-0.10	0.02
KB1	6.19	0.15	-0.81	0.04
KB18	6.94	0.02	-0.06	0.02
YL2	6.15	0.18	-0.85	0.05
YL27	6.16	0.15	-0.84	0.04
YL31	6.74	0.04	-0.26	0.02
YL32	6.85	0.05	-0.15	0.02
YL44	6.45	0.11	-0.55	0.03
YL45	7.16	0.04	0.16	0.02
YL58	5.89	0.14	-1.11	0.04
AF medium	6.95	0.13		

\*SM: spent medium

\*\* delta pH\_SM: pH in SM - pH in fresh medium (AF medium)

growth_of	inSM_of	mean_pH_DSsd_pH_DSM	delta pH_DSM	sd delta ph_D
I46	KB1	6.07	0.06	-0.12 0.02
I46	YL2	5.98	0.18	-0.17 0.05
I46	YL27	6.02	0.16	-0.14 0.04
I46	YL31	6.53	0.03	-0.21 0.02
I46	YL44	6.43	0.13	-0.02 0.03
I46	YL45	6.78	0.03	-0.38 0.02
I46	I48	5.90	0.09	0.05 0.02
I46	I49	6.87	0.03	-0.03 0.02
I46	KB18	6.68	0.10	-0.26 0.03
I46	YL32	6.83	0.03	-0.02 0.02
I46	I46	6.80	0.05	0.05 0.02
I46	YL58	5.82	0.13	-0.07 0.03
I48	YL27	5.77	0.08	-0.39 0.01
I48	KB1	5.98	0.08	-0.21 0.01
I48	I48	5.83	0.15	-0.02 0.03
I48	YL44	5.97	0.12	-0.48 0.02
I48	YL32	6.78	0.16	-0.07 0.03
I48	YL2	5.70	0.13	-0.45 0.02
I48	KB18	6.12	0.20	-0.82 0.05
I48	YL58	5.75	0.09	-0.14 0.01
I48	YL45	6.08	0.08	-1.08 0.01
I48	I46	6.57	0.15	-0.18 0.03
I48	YL31	6.08	0.18	-0.66 0.04
I48	I49	6.55	0.15	-0.35 0.03
I49	YL58	5.95	0.05	0.06 0.01
I49	YL31	6.67	0.13	-0.07 0.02
I49	YL27	6.13	0.15	-0.03 0.03
I49	I49	7.02	0.03	0.12 0.00
I49	KB1	6.08	0.08	-0.11 0.01
I49	YL2	6.12	0.23	-0.03 0.05
I49	I48	5.98	0.10	0.13 0.01
I49	KB18	6.72	0.03	-0.22 0.00
I49	YL44	6.52	0.13	0.07 0.02
I49	YL45	7.00	0.09	-0.16 0.01
I49	I46	6.77	0.06	0.02 0.01
I49	YL32	6.97	0.06	0.12 0.01
KB1	I49	6.35	0.05	-0.55 0.02
KB1	YL58	6.25	0.56	0.36 0.34
KB1	YL27	5.77	0.06	-0.39 0.03
KB1	KB18	6.20	0.09	-0.74 0.03
KB1	KB1	5.97	0.06	-0.22 0.03
KB1	YL32	6.75	0.05	-0.10 0.02
KB1	I48	5.82	0.08	-0.03 0.03
KB1	I46	6.68	0.08	-0.07 0.03
KB1	YL44	5.98	0.08	-0.47 0.03
KB1	YL2	5.80	0.13	-0.35 0.04
KB1	YL31	6.17	0.06	-0.57 0.03

KB1	YL45	6.33	0.12	-0.83	0.04
KB18	I49	6.92	0.03	0.02	0.00
KB18	I48	6.10	0.18	0.25	0.03
KB18	I46	6.78	0.03	0.03	0.00
KB18	YL2	6.18	0.08	0.03	0.01
KB18	YL58	6.07	0.08	0.18	0.01
KB18	YL31	6.72	0.19	-0.02	0.04
KB18	KB1	6.20	0.05	0.01	0.00
KB18	YL45	7.17	0.10	0.01	0.01
KB18	YL27	6.15	0.09	-0.01	0.01
KB18	KB18	6.88	0.03	-0.06	0.00
KB18	YL44	6.47	0.10	0.02	0.01
KB18	YL32	6.93	0.06	0.08	0.00
YL2	YL58	5.88	0.08	-0.01	0.04
YL2	I49	6.80	0.05	-0.10	0.03
YL2	I48	5.72	0.13	-0.13	0.05
YL2	I46	6.55	0.05	-0.20	0.03
YL2	YL45	6.42	0.03	-0.74	0.03
YL2	YL32	6.83	0.12	-0.02	0.05
YL2	YL31	6.07	0.15	-0.67	0.06
YL2	KB18	6.18	0.08	-0.76	0.04
YL2	YL44	6.15	0.09	-0.30	0.04
YL2	YL27	5.80	0.17	-0.36	0.06
YL2	KB1	5.87	0.06	-0.32	0.04
YL2	YL2	6.03	0.10	-0.12	0.04
YL27	I48	5.87	0.08	0.02	0.03
YL27	YL45	7.05	0.18	-0.11	0.06
YL27	I49	6.72	0.03	-0.18	0.02
YL27	I46	6.58	0.03	-0.17	0.02
YL27	YL58	5.83	0.06	-0.06	0.03
YL27	YL31	6.72	0.10	-0.02	0.03
YL27	KB18	6.17	0.10	-0.77	0.03
YL27	YL44	6.12	0.10	-0.33	0.03
YL27	YL32	6.90	0.18	0.05	0.06
YL27	YL27	6.03	0.13	-0.13	0.04
YL27	KB1	5.93	0.13	-0.26	0.04
YL27	YL2	5.88	0.14	-0.27	0.04
YL31	I46	6.52	0.03	-0.23	0.04
YL31	YL45	6.95	0.18	-0.21	0.07
YL31	YL58	5.83	0.06	-0.06	0.04
YL31	I49	6.63	0.06	-0.27	0.04
YL31	YL44	6.42	0.03	-0.03	0.04
YL31	I48	5.90	0.13	0.05	0.06
YL31	KB18	6.52	0.03	-0.42	0.04
YL31	YL32	6.83	0.13	-0.02	0.06
YL31	YL31	6.73	0.03	-0.01	0.04
YL31	YL2	5.90	0.10	-0.25	0.05
YL31	YL27	6.03	0.06	-0.13	0.04

YL31	KB1	5.80	0.09	-0.39	0.05
YL32	YL44	6.57	0.18	0.12	0.03
YL32	I48	5.83	0.15	-0.02	0.03
YL32	YL45	7.00	0.26	-0.16	0.07
YL32	YL32	6.95	0.09	0.10	0.01
YL32	YL31	6.73	0.06	-0.01	0.01
YL32	I46	6.73	0.06	-0.02	0.01
YL32	YL58	5.83	0.03	-0.06	0.00
YL32	I49	6.93	0.03	0.03	0.00
YL32	KB18	6.73	0.03	-0.21	0.00
YL32	YL2	6.05	0.15	-0.10	0.03
YL32	YL27	6.15	0.15	-0.01	0.03
YL32	KB1	6.02	0.03	-0.17	0.00
YL44	I46	6.68	0.03	-0.07	0.01
YL44	YL32	6.58	0.46	-0.27	0.23
YL44	YL44	6.48	0.08	0.03	0.02
YL44	YL45	6.62	0.13	-0.54	0.03
YL44	YL58	5.82	0.03	-0.07	0.01
YL44	YL31	6.33	0.13	-0.41	0.03
YL44	YL27	6.08	0.14	-0.08	0.03
YL44	I49	6.95	0.05	0.05	0.01
YL44	YL2	6.12	0.16	-0.03	0.04
YL44	I48	5.87	0.15	0.02	0.03
YL44	KB18	6.37	0.12	-0.57	0.02
YL44	KB1	6.05	0.05	-0.14	0.01
YL45	YL27	6.48	0.33	0.32	0.11
YL45	I48	6.60	0.05	0.75	0.00
YL45	YL32	6.87	0.24	0.02	0.06
YL45	YL44	6.63	0.39	0.18	0.15
YL45	KB18	7.05	0.05	0.11	0.00
YL45	YL2	6.80	0.13	0.65	0.02
YL45	YL58	6.35	0.22	0.46	0.05
YL45	I46	7.05	0.09	0.30	0.01
YL45	YL45	7.28	0.03	0.12	0.00
YL45	YL31	6.77	0.41	0.03	0.17
YL45	I49	7.00	0.20	0.10	0.04
YL45	KB1	6.72	0.23	0.53	0.05
YL58	KB18	5.90	0.13	-1.04	0.04
YL58	YL32	6.67	0.08	-0.18	0.03
YL58	I46	6.32	0.03	-0.43	0.02
YL58	YL58	5.78	0.08	-0.11	0.03
YL58	KB1	6.12	0.10	-0.07	0.03
YL58	YL2	5.87	0.15	-0.28	0.04
YL58	YL27	5.65	0.13	-0.51	0.04
YL58	YL31	6.68	0.08	-0.06	0.03
YL58	YL44	5.85	0.13	-0.60	0.04
YL58	YL45	6.18	0.25	-0.98	0.08
YL58	I48	5.90	0.09	0.05	0.03

YL58

I49

6.32

0.10

-0.58

0.03



SM

\*DSM: double spent medium

\*\* delta pH\_DSM: pH in DSM - pH in SM

	KB1	YL2	KB18	YL27	YL31	YL32	
KB1		370	33	29	118	87	119
YL2			128	29	75	55	46
KB18				105	64	28	16
YL27					656	191	141
YL31						349	78
YL32							272
YL44							25
YL45							59
I46							89
I48							123
I49							81
YL58							149

\*values shown are total/shared number of depleted metabolomic features from SM

\*\* diagonal: total number of depleted metabolomic features of each strain, other: number met

YL44	YL45	I46	I48	I49	YL58	
	25	59	210	99	86	127
	10	10	35	76	30	47
	5	20	47	68	13	22
	26	47	124	435	71	124
	13	25	61	174	47	52
	25	59	89	123	81	149
	42	8	17	25	15	27
	8	185	55	44	13	50
	17	55	430	134	36	86
	25	44	134	622	59	115
	15	13	36	59	130	73
	27	50	86	115	73	235

abolomic features depleted by pairwise strains

coculture	mean ph	sd ph	time [h]	
KB1YL2	6.50	0.06	0	
YL45I49	7.08	0.03	0	
I46 Mono	6.90	0.08	0	
KB1I48	6.71	0.09	0	
YL2YL32	6.60	0.03	0	
YL2 Mono	6.33	0.00	0	
KB18I49	6.91	0.10	0	
YL27I46	6.86	0.05	0	
YL31YL45	7.04	0.05	0	
YL32YL45	6.98	0.22	0	
YL44I46	6.84	0.10	0	
KB1KB18	6.81	0.07	0	
YL45YL58	6.95	0.03	0	
I48I49	6.85	0.02	0	
YL58 Mono	6.77	0.18	0	
KB1I49	5.79	1.69	0	
YL2YL44	6.52	0.02	0	
KB18YL27	6.79	0.05	0	
KB18YL58	6.82	0.03	0	
YL27I48	6.78	0.04	0	
YL31I46	6.92	0.05	0	
YL32I46	6.93	0.24	0	
YL44I48	6.75	0.07	0	
KB1YL27	6.80	0.10	0	
I48YL58	6.74	0.06	0	
KB1YL58	6.74	0.07	0	
YL2YL45	6.72	0.04	0	
KB18YL31	6.90	0.02	0	
YL27I49	6.84	0.03	0	
YL31I48	6.88	0.07	0	
YL32I48	6.85	0.12	0	
YL44I49	6.85	0.14	0	
KB1YL31	6.90	0.14	0	
YL45 Mono	7.19	0.04	0	
Blank1	7.19	0.07	0	
YL2I46	6.63	0.03	0	
KB18YL32	6.99	0.04	0	
KB18 Mono	6.93	0.05	0	
YL27YL58	6.76	0.06	0	
YL31I49	6.94	0.08	0	
YL32I49	6.96	0.26	0	
YL44YL58	6.75	0.08	0	
KB1YL32	6.91	0.10	0	
I46I48	6.84	0.03	0	
I48 Mono	6.76	0.08	0	
Blank2	7.24	0.04	0	
KB1 Mono	6.72	0.12	0	

YLI48	6.52	0.04	0
KB18YL44	6.86	0.04	0
YL27YL31	6.91	0.06	0
YL31YL58	6.81	0.03	0
YL32YL58	6.84	0.09	0
KB1YL44	6.76	0.08	0
I46I49	6.90	0.04	0
I49YL58	6.92	0.06	0
Blank3	7.24	0.03	0
YL2KB18	6.62	0.02	0
YL2I49	6.59	0.02	0
KB18YL45	7.08	0.06	0
YL27YL32	6.94	0.05	0
YL27 Mono	6.81	0.07	0
YL44 Mono	6.82	0.11	0
KB1YL45	6.93	0.09	0
I46YL58	6.83	0.08	0
Blank4	7.25	0.04	0
YL2YL27	6.54	0.04	0
YL2YL58	6.50	0.03	0
KB18I46	6.86	0.08	0
YL27YL44	6.81	0.06	0
YL31YL32	6.97	0.04	0
YL31 Mono	6.91	0.02	0
YL32 Mono	7.08	0.10	0
YL45I46	7.03	0.04	0
KB1I46	6.81	0.09	0
I49 Mono	6.92	0.09	0
Blank5	7.24	0.02	0
YL2YL31	6.59	0.03	0
KB18I48	6.81	0.04	0
YL27YL45	6.97	0.06	0
YL31YL44	6.88	0.11	0
YL32YL44	6.93	0.04	0
YL44YL45	6.99	0.06	0
YL45I48	6.97	0.05	0
KB1YL2	5.95	0.06	24
YL45I49	6.71	0.08	24
I46 Mono	6.55	0.03	24
KB1I48	5.93	0.08	24
YL2YL32	6.20	0.07	24
YL2 Mono	6.16	0.10	24
KB18I49	6.44	0.03	24
YL27I46	6.44	0.02	24
YL31YL45	6.73	0.16	24
YL32YL45	6.64	0.04	24
YL44I46	6.57	0.03	24
KB1KB18	5.97	0.06	24

YL45YL58	6.12	0.10	24
I48I49	6.13	0.05	24
YL58 Mono	6.21	0.14	24
KB1I49	5.91	0.07	24
YL2YL44	6.08	0.06	24
KB18YL27	5.97	0.16	24
KB18YL58	6.11	0.08	24
YL27I48	5.89	0.20	24
YL31I46	6.51	0.02	24
YL32I46	6.62	0.04	24
YL44I48	5.97	0.12	24
KB1YL27	5.91	0.09	24
I48YL58	6.25	0.06	24
KB1YL58	6.11	0.02	24
YL2YL45	6.32	0.17	24
KB18YL31	6.47	0.04	24
YL27I49	6.29	0.03	24
YL31I48	6.41	0.03	24
YL32I48	6.36	0.13	24
YL44I49	6.58	0.06	24
KB1YL31	6.01	0.06	24
YL45 Mono	6.93	0.05	24
Blank1	7.03	0.07	24
YL2I46	6.34	0.16	24
KB18YL32	6.56	0.03	24
KB18 Mono	6.73	0.10	24
YL27YL58	6.20	0.03	24
YL31I49	6.44	0.00	24
YL32I49	6.57	0.05	24
YL44YL58	6.30	0.06	24
KB1YL32	6.11	0.07	24
I46I48	6.57	0.02	24
I48 Mono	5.92	0.13	24
Blank2	7.07	0.03	24
KB1 Mono	5.96	0.06	24
YLI48	5.87	0.06	24
KB18YL44	6.10	0.16	24
YL27YL31	6.45	0.03	24
YL31YL58	6.25	0.07	24
YL32YL58	6.36	0.08	24
KB1YL44	5.98	0.09	24
I46I49	6.61	0.01	24
I49YL58	6.40	0.21	24
Blank3	7.08	0.03	24
YL2KB18	6.05	0.09	24
YL2I49	6.23	0.04	24
KB18YL45	6.54	0.23	24
YL27YL32	6.44	0.06	24

YL27 Mono	6.11	0.09	24
YL44 Mono	6.37	0.09	24
KB1YL45	6.12	0.09	24
I46YL58	6.45	0.05	24
Blank4	7.16	0.05	24
YL2YL27	5.96	0.09	24
YL2YL58	6.06	0.09	24
KB18I46	6.45	0.02	24
YL27YL44	6.05	0.08	24
YL31YL32	6.50	0.02	24
YL31 Mono	6.65	0.02	24
YL32 Mono	6.73	0.02	24
YL45I46	6.61	0.03	24
KB1I46	6.02	0.09	24
I49 Mono	6.84	0.01	24
Blank5	7.10	0.04	24
YL2YL31	6.15	0.07	24
KB18I48	5.90	0.10	24
YL27YL45	6.20	0.03	24
YL31YL44	6.42	0.04	24
YL32YL44	6.70	0.17	24
YL44YL45	6.41	0.07	24
YL45I48	5.89	0.03	24
KB1YL2	5.95	0.07	48
YL45I49	6.72	0.06	48
I46 Mono	6.57	0.03	48
KB1I48	5.92	0.08	48
YL2YL32	6.19	0.10	48
YL2 Mono	6.12	0.10	48
KB18I49	6.57	0.04	48
YL27I46	6.51	0.06	48
YL31YL45	6.70	0.05	48
YL32YL45	6.69	0.13	48
YL44I46	6.57	0.06	48
KB1KB18	5.96	0.09	48
YL45YL58	6.09	0.15	48
I48I49	5.93	0.06	48
YL58 Mono	6.07	0.10	48
KB1I49	5.93	0.11	48
YL2YL44	6.19	0.12	48
KB18YL27	5.94	0.16	48
KB18YL58	6.06	0.20	48
YL27I48	5.75	0.09	48
YL31I46	6.59	0.08	48
YL32I46	6.67	0.13	48
YL44I48	5.78	0.14	48
KB1YL27	5.94	0.11	48
I48YL58	6.17	0.08	48

KB1YL58	6.21	0.11	48
YL2YL45	6.38	0.18	48
KB18YL31	6.57	0.09	48
YL27I49	6.45	0.10	48
YL31I48	6.53	0.10	48
YL32I48	6.59	0.14	48
YL44I49	6.69	0.08	48
KB1YL31	5.98	0.11	48
YL45 Mono	6.98	0.06	48
Blank1	7.01	0.03	48
YL2I46	6.46	0.10	48
KB18YL32	6.55	0.13	48
KB18 Mono	6.84	0.09	48
YL27YL58	6.23	0.02	48
YL31I49	6.62	0.09	48
YL32I49	6.71	0.11	48
YL44YL58	6.29	0.02	48
KB1YL32	6.03	0.10	48
I46I48	6.50	0.11	48
I48 Mono	5.92	0.07	48
Blank2	7.01	0.03	48
KB1 Mono	6.09	0.12	48
YLI48	5.90	0.05	48
KB18YL44	6.30	0.08	48
YL27YL31	6.62	0.10	48
YL31YL58	6.23	0.04	48
YL32YL58	6.54	0.17	48
KB1YL44	5.96	0.10	48
I46I49	6.65	0.07	48
I49YL58	6.18	0.10	48
Blank3	7.01	0.04	48
YL2KB18	6.03	0.15	48
YL2I49	6.34	0.08	48
KB18YL45	6.87	0.07	48
YL27YL32	6.68	0.13	48
YL27 Mono	6.10	0.15	48
YL44 Mono	6.46	0.04	48
KB1YL45	6.15	0.07	48
I46YL58	6.37	0.08	48
Blank4	7.12	0.04	48
YL2YL27	5.98	0.12	48
YL2YL58	6.13	0.03	48
KB18I46	6.59	0.11	48
YL27YL44	6.05	0.14	48
YL31YL32	6.60	0.04	48
YL31 Mono	6.68	0.04	48
YL32 Mono	6.68	0.06	48
YL45I46	6.69	0.09	48



KB1I46	5.96	0.06	48
I49 Mono	6.83	0.03	48
Blank5	7.08	0.02	48
YL2YL31	6.15	0.05	48
KB18I48	5.79	0.07	48
YL27YL45	6.53	0.12	48
YL31YL44	6.42	0.05	48
YL32YL44	6.61	0.05	48
YL44YL45	6.34	0.11	48
YL45I48	5.93	0.08	48
KB1YL2	5.94	0.04	72
YL45I49	6.72	0.07	72
I46 Mono	6.62	0.08	72
KB1I48	5.96	0.08	72
YL2YL32	6.26	0.10	72
YL2 Mono	6.22	0.15	72
KB18I49	6.59	0.04	72
YL27I46	6.53	0.04	72
YL31YL45	6.72	0.04	72
YL32YL45	6.72	0.17	72
YL44I46	6.68	0.16	72
KB1KB18	6.00	0.06	72
YL45YL58	6.11	0.05	72
I48I49	5.85	0.04	72
YL58 Mono	6.11	0.05	72
KB1I49	5.99	0.09	72
YL2YL44	6.16	0.11	72
KB18YL27	6.00	0.09	72
KB18YL58	6.14	0.09	72
YL27I48	5.79	0.11	72
YL31I46	6.52	0.04	72
YL32I46	6.59	0.05	72
YL44I48	5.82	0.09	72
KB1YL27	6.01	0.07	72
I48YL58	6.17	0.01	72
KB1YL58	6.16	0.08	72
YL2YL45	6.39	0.09	72
KB18YL31	6.50	0.06	72
YL27I49	6.33	0.10	72
YL31I48	6.45	0.04	72
YL32I48	6.38	0.06	72
YL44I49	6.68	0.10	72
KB1YL31	6.04	0.06	72
YL45 Mono	6.97	0.06	72
Blank1	7.02	0.01	72
YL2I46	6.44	0.05	72
KB18YL32	6.62	0.06	72
KB18 Mono	6.85	0.02	72

YL27YL58	6.18	0.04	72
YL31I49	6.53	0.03	72
YL32I49	6.60	0.07	72
YL44YL58	6.21	0.07	72
KB1YL32	6.08	0.08	72
I46I48	6.51	0.04	72
I48 Mono	5.89	0.04	72
Blank2	7.03	0.01	72
KB1 Mono	6.06	0.11	72
YLI48	5.91	0.10	72
KB18YL44	6.28	0.11	72
YL27YL31	6.54	0.03	72
YL31YL58	6.19	0.02	72
YL32YL58	6.44	0.08	72
KB1YL44	6.01	0.08	72
I46I49	6.58	0.03	72
I49YL58	6.19	0.06	72
Blank3	7.04	0.02	72
YL2KB18	6.10	0.11	72
YL2I49	6.24	0.16	72
KB18YL45	6.79	0.06	72
YL27YL32	6.63	0.11	72
YL27 Mono	6.17	0.10	72
YL44 Mono	6.38	0.08	72
KB1YL45	6.18	0.07	72
I46YL58	6.29	0.03	72
Blank4	7.10	0.03	72
YL2YL27	6.03	0.06	72
YL2YL58	6.06	0.05	72
KB18I46	6.53	0.08	72
YL27YL44	6.11	0.12	72
YL31YL32	6.53	0.02	72
YL31 Mono	6.72	0.08	72
YL32 Mono	6.73	0.11	72
YL45I46	6.61	0.04	72
KB1I46	5.99	0.06	72
I49 Mono	6.84	0.01	72
Blank5	7.10	0.03	72
YL2YL31	6.19	0.04	72
KB18I48	5.69	0.07	72
YL27YL45	6.10	0.11	72
YL31YL44	6.40	0.06	72
YL32YL44	6.70	0.14	72
YL44YL45	6.34	0.12	72
YL45I48	5.92	0.07	72

time [h]	coculture	probe1	probe2	probe1_copies	probe2_copies	sum_copies
0	KB1I46	KB1	I46	6.10E+04	5.95E+05	6.56E+05
24	KB1I46	KB1	I46	4.68E+05	1.32E+05	6.00E+05
48	KB1I46	KB1	I46	7.85E+05	3.20E+04	8.17E+05
72	KB1I46	KB1	I46	3.18E+05	1.58E+04	3.33E+05
0	KB18I46	KB18	I46	6.55E+02	3.48E+05	3.48E+05
24	KB18I46	KB18	I46	1.72E+04	2.90E+05	3.07E+05
48	KB18I46	KB18	I46	7.45E+03	4.28E+05	4.35E+05
72	KB18I46	KB18	I46	2.32E+03	5.58E+05	5.60E+05
0	YL2I46	YL2	I46	3.57E+05	3.95E+05	7.52E+05
24	YL2I46	YL2	I46	4.00E+05	3.35E+05	7.35E+05
48	YL2I46	YL2	I46	2.22E+05	4.15E+05	6.37E+05
72	YL2I46	YL2	I46	1.72E+05	1.56E+04	1.88E+05
0	YL27I46	YL27	I46	3.18E+05	6.40E+05	9.58E+05
24	YL27I46	YL27	I46	8.30E+04	2.55E+05	3.38E+05
48	YL27I46	YL27	I46	7.23E+04	4.35E+05	5.07E+05
72	YL27I46	YL27	I46	1.09E+05	6.83E+05	7.92E+05
0	YL31I46	YL31	I46	1.13E+05	4.93E+05	6.06E+05
24	YL31I46	YL31	I46	7.50E+04	3.70E+05	4.45E+05
48	YL31I46	YL31	I46	4.76E+04	4.55E+05	5.03E+05
72	YL31I46	YL31	I46	6.80E+04	5.50E+05	6.18E+05
0	YL32I46	YL32	I46	5.72E+03	4.30E+05	4.36E+05
24	YL32I46	YL32	I46	5.94E+03	4.43E+05	4.48E+05
48	YL32I46	YL32	I46	8.24E+03	5.88E+05	5.96E+05
72	YL32I46	YL32	I46	9.72E+03	6.75E+05	6.85E+05
0	YL44I46	YL44	I46	2.12E+03	6.68E+05	6.70E+05
24	YL44I46	YL44	I46	2.71E+05	7.40E+05	1.01E+06
48	YL44I46	YL44	I46	2.96E+04	4.45E+05	4.75E+05
72	YL44I46	YL44	I46	1.01E+03	6.53E+05	6.54E+05
0	YL45I46	YL45	I46	3.18E+04	3.48E+05	3.79E+05
24	YL45I46	YL45	I46	4.58E+04	6.45E+05	6.91E+05
48	YL45I46	YL45	I46	4.98E+04	6.73E+05	7.22E+05
72	YL45I46	YL45	I46	3.20E+04	5.40E+05	5.72E+05
0	I46I48	I46	I48	6.13E+05	3.09E+05	9.22E+05
24	I46I48	I46	I48	3.48E+04	2.10E+05	2.45E+05
48	I46I48	I46	I48	8.60E+05	3.53E+05	1.21E+06
72	I46I48	I46	I48	1.69E+05	5.40E+05	7.09E+05
0	KB1I48	KB1	I48	2.29E+05	6.10E+05	8.39E+05
24	KB1I48	KB1	I48	1.44E+05	2.22E+04	1.66E+05
48	KB1I48	KB1	I48	3.08E+05	1.78E+04	3.25E+05
72	KB1I48	KB1	I48	5.63E+04	6.03E+04	1.17E+05
0	KB18I48	KB18	I48	2.35E+04	6.60E+05	6.83E+05
24	KB18I48	KB18	I48	5.75E+03	1.63E+06	1.63E+06
48	KB18I48	KB18	I48	1.34E+02	9.00E+05	9.00E+05
72	KB18I48	KB18	I48	3.63E+00	1.95E+06	1.95E+06
0	YL2I48	YL2	I48	3.05E+05	4.50E+05	7.55E+05
24	YL2I48	YL2	I48	4.33E+05	2.49E+05	6.82E+05
48	YL2I48	YL2	I48	1.54E+05	4.80E+05	6.34E+05

72 YL2I48	YL2	I48	2.06E+04	4.47E+04	6.53E+04
0 YL27I48	YL27	I48	1.71E+04	4.83E+05	5.00E+05
24 YL27I48	YL27	I48	3.03E+05	2.96E+05	5.98E+05
48 YL27I48	YL27	I48	7.60E+04	8.10E+05	8.86E+05
72 YL27I48	YL27	I48	5.88E+04	1.45E+06	1.51E+06
0 YL31I48	YL31	I48	6.25E+04	4.07E+05	4.69E+05
24 YL31I48	YL31	I48	4.91E+04	3.00E+05	3.49E+05
48 YL31I48	YL31	I48	1.87E+04	4.33E+05	4.52E+05
72 YL31I48	YL31	I48	6.90E+04	9.03E+05	9.72E+05
0 YL32I48	YL32	I48	6.06E+03	4.07E+05	4.13E+05
24 YL32I48	YL32	I48	8.70E+03	8.03E+05	8.12E+05
48 YL32I48	YL32	I48	3.18E+04	5.60E+05	5.92E+05
72 YL32I48	YL32	I48	1.26E+04	8.83E+05	8.96E+05
0 YL44I48	YL44	I48	2.55E+05	2.97E+05	5.53E+05
24 YL44I48	YL44	I48	4.20E+04	1.09E+06	1.13E+06
48 YL44I48	YL44	I48	1.25E+03	3.37E+05	3.38E+05
72 YL44I48	YL44	I48	4.90E+02	3.63E+05	3.64E+05
0 YL45I48	YL45	I48	4.90E+04	5.23E+05	5.72E+05
24 YL45I48	YL45	I48	4.77E+04	1.80E+06	1.84E+06
48 YL45I48	YL45	I48	5.17E+04	9.50E+05	1.00E+06
72 YL45I48	YL45	I48	5.08E+04	1.39E+06	1.44E+06
0 I46I49	I46	I49	3.15E+05	5.73E+04	3.72E+05
24 I46I49	I46	I49	4.60E+05	8.42E+03	4.68E+05
48 I46I49	I46	I49	2.21E+05	8.42E+00	2.21E+05
72 I46I49	I46	I49	2.88E+05	0.00E+00	2.88E+05
0 I48I49	I48	I49	8.87E+05	6.60E+04	9.53E+05
24 I48I49	I48	I49	1.40E+06	5.03E+04	1.45E+06
48 I48I49	I48	I49	9.73E+05	2.42E+04	9.98E+05
72 I48I49	I48	I49	2.29E+06	3.58E+04	2.32E+06
0 KB1I49	KB1	I49	1.33E+05	1.54E+05	2.87E+05
24 KB1I49	KB1	I49	1.70E+05	5.18E+03	1.75E+05
48 KB1I49	KB1	I49	2.25E+05	5.07E+03	2.30E+05
72 KB1I49	KB1	I49	1.47E+05	5.75E+02	1.47E+05
0 KB18I49	KB18	I49	4.13E+04	1.42E+05	1.83E+05
24 KB18I49	KB18	I49	5.70E+04	1.04E+05	1.61E+05
48 KB18I49	KB18	I49	1.64E+04	2.47E+05	2.63E+05
72 KB18I49	KB18	I49	1.42E+04	2.38E+05	2.53E+05
0 YL2I49	YL2	I49	3.97E+05	7.75E+04	4.74E+05
24 YL2I49	YL2	I49	5.43E+05	3.15E+04	5.75E+05
48 YL2I49	YL2	I49	5.63E+05	4.90E+03	5.68E+05
72 YL2I49	YL2	I49	4.20E+04	4.30E+02	4.24E+04
0 YL27I49	YL27	I49	3.68E+05	7.17E+04	4.39E+05
24 YL27I49	YL27	I49	4.50E+05	5.22E+04	5.02E+05
48 YL27I49	YL27	I49	3.98E+05	6.05E+04	4.58E+05
72 YL27I49	YL27	I49	5.78E+05	7.20E+04	6.50E+05
0 YL31I49	YL31	I49	8.90E+04	9.20E+04	1.81E+05
24 YL31I49	YL31	I49	1.08E+05	4.03E+04	1.48E+05
48 YL31I49	YL31	I49	1.01E+05	6.47E+01	1.01E+05

72 YL31I49	YL31	I49	1.01E+05	1.43E+00	1.01E+05
0 YL32I49	YL32	I49	3.54E+04	5.97E+04	9.51E+04
24 YL32I49	YL32	I49	1.33E+04	8.95E+04	1.03E+05
48 YL32I49	YL32	I49	3.86E+04	1.41E+05	1.79E+05
72 YL32I49	YL32	I49	3.38E+04	1.11E+05	1.45E+05
0 YL44I49	YL44	I49	3.60E+05	7.83E+04	4.38E+05
24 YL44I49	YL44	I49	7.87E+04	1.49E+05	2.27E+05
48 YL44I49	YL44	I49	9.90E+03	2.42E+05	2.52E+05
72 YL44I49	YL44	I49	3.87E+03	1.93E+05	1.97E+05
0 YL45I49	YL45	I49	8.55E+04	1.04E+05	1.89E+05
24 YL45I49	YL45	I49	4.60E+04	3.52E+04	8.12E+04
48 YL45I49	YL45	I49	1.32E+05	6.13E+04	1.93E+05
72 YL45I49	YL45	I49	8.72E+04	1.82E+05	2.69E+05
0 KB1KB18	KB1	KB18	1.90E+05	5.60E+04	2.46E+05
24 KB1KB18	KB1	KB18	8.98E+04	9.55E+03	9.93E+04
48 KB1KB18	KB1	KB18	4.00E+05	9.20E+01	4.00E+05
72 KB1KB18	KB1	KB18	2.44E+05	6.55E+00	2.44E+05
0 YL2KB18	YL2	KB18	5.43E+05	3.76E+04	5.81E+05
24 YL2KB18	YL2	KB18	3.18E+05	2.94E+01	3.18E+05
48 YL2KB18	YL2	KB18	5.40E+05	9.75E+03	5.50E+05
72 YL2KB18	YL2	KB18	4.60E+05	0.00E+00	4.60E+05
0 KB1YL2	KB1	YL2	1.66E+05	8.40E+05	1.01E+06
24 KB1YL2	KB1	YL2	7.23E+04	3.77E+04	1.10E+05
48 KB1YL2	KB1	YL2	1.27E+05	1.15E+03	1.28E+05
72 KB1YL2	KB1	YL2	1.47E+05	3.11E+02	1.47E+05
0 KB1YL27	KB1	YL27	3.98E+05	3.63E+05	7.60E+05
24 KB1YL27	KB1	YL27	1.16E+05	7.48E+04	1.90E+05
48 KB1YL27	KB1	YL27	3.20E+05	9.48E+02	3.21E+05
72 KB1YL27	KB1	YL27	3.55E+05	5.08E+00	3.55E+05
0 KB18YL27	KB18	YL27	3.99E+04	5.58E+05	5.97E+05
24 KB18YL27	KB18	YL27	3.29E+04	7.25E+05	7.58E+05
48 KB18YL27	KB18	YL27	1.48E+02	7.20E+05	7.20E+05
72 KB18YL27	KB18	YL27	3.16E+00	1.24E+06	1.24E+06
0 YL2YL27	YL2	YL27	2.29E+05	3.53E+05	5.82E+05
24 YL2YL27	YL2	YL27	4.20E+05	2.11E+05	6.31E+05
48 YL2YL27	YL2	YL27	3.19E+05	4.08E+05	7.27E+05
72 YL2YL27	YL2	YL27	3.29E+05	3.50E+05	6.79E+05
0 KB1YL31	KB1	YL31	7.50E+04	3.92E+05	4.67E+05
24 KB1YL31	KB1	YL31	6.88E+05	3.32E+05	1.02E+06
48 KB1YL31	KB1	YL31	3.90E+05	2.32E+05	6.22E+05
72 KB1YL31	KB1	YL31	2.63E+05	2.12E+05	4.75E+05
0 KB18YL31	KB18	YL31	3.66E+04	6.10E+05	6.47E+05
24 KB18YL31	KB18	YL31	1.73E+04	3.41E+05	3.58E+05
48 KB18YL31	KB18	YL31	1.65E+04	5.10E+05	5.27E+05
72 KB18YL31	KB18	YL31	1.49E+04	7.90E+05	8.05E+05
0 YL2YL31	YL2	YL31	2.33E+05	5.65E+05	7.98E+05
24 YL2YL31	YL2	YL31	5.17E+05	7.20E+05	1.24E+06
48 YL2YL31	YL2	YL31	3.77E+05	6.15E+05	9.92E+05

72 YL2YL31	YL2	YL31	4.20E+03	0.00E+00	4.20E+03
0 YL27YL31	YL27	YL31	2.83E+05	3.67E+05	6.49E+05
24 YL27YL31	YL27	YL31	9.13E+05	8.20E+05	1.73E+06
48 YL27YL31	YL27	YL31	1.10E+06	6.35E+05	1.73E+06
72 YL27YL31	YL27	YL31	1.48E+06	8.00E+05	2.28E+06
0 KB1YL32	KB1	YL32	6.85E+04	2.82E+04	9.67E+04
24 KB1YL32	KB1	YL32	2.28E+05	3.46E+04	2.63E+05
48 KB1YL32	KB1	YL32	4.60E+05	1.27E+04	4.73E+05
72 KB1YL32	KB1	YL32	1.73E+05	1.43E+04	1.87E+05
0 KB18YL32	KB18	YL32	6.65E+01	5.46E+04	5.47E+04
24 KB18YL32	KB18	YL32	3.31E+04	5.18E+04	8.49E+04
48 KB18YL32	KB18	YL32	1.77E+04	6.82E+04	8.59E+04
72 KB18YL32	KB18	YL32	2.08E+00	8.98E+04	8.98E+04
0 YL2YL32	YL2	YL32	4.97E+05	7.22E+04	5.69E+05
24 YL2YL32	YL2	YL32	2.23E+05	3.82E+04	2.62E+05
48 YL2YL32	YL2	YL32	8.47E+05	4.62E+04	8.93E+05
72 YL2YL32	YL2	YL32	1.89E+04	2.96E+03	2.19E+04
0 YL27YL32	YL27	YL32	3.00E+05	4.06E+04	3.41E+05
24 YL27YL32	YL27	YL32	9.08E+05	8.66E+04	9.94E+05
48 YL27YL32	YL27	YL32	1.97E+05	8.82E+04	2.85E+05
72 YL27YL32	YL27	YL32	2.50E+05	9.16E+04	3.42E+05
0 YL31YL32	YL31	YL32	1.31E+04	3.56E+04	4.87E+04
24 YL31YL32	YL31	YL32	2.39E+05	5.44E+04	2.93E+05
48 YL31YL32	YL31	YL32	2.98E+05	8.34E+04	3.81E+05
72 YL31YL32	YL31	YL32	4.91E+04	7.26E+04	1.22E+05
0 KB1YL44	KB1	YL44	4.15E+05	2.85E+05	7.00E+05
24 KB1YL44	KB1	YL44	9.33E+04	2.69E+04	1.20E+05
48 KB1YL44	KB1	YL44	5.53E+05	7.37E+02	5.53E+05
72 KB1YL44	KB1	YL44	2.00E+05	3.08E+02	2.00E+05
0 KB18YL44	KB18	YL44	1.56E+04	2.78E+05	2.94E+05
24 KB18YL44	KB18	YL44	1.41E+04	3.33E+05	3.47E+05
48 KB18YL44	KB18	YL44	3.09E+01	4.37E+05	4.37E+05
72 KB18YL44	KB18	YL44	8.65E+03	7.20E+05	7.29E+05
0 YL2YL44	YL2	YL44	1.39E+05	6.43E+05	7.82E+05
24 YL2YL44	YL2	YL44	6.23E+05	6.47E+04	6.88E+05
48 YL2YL44	YL2	YL44	6.17E+05	6.10E+03	6.23E+05
72 YL2YL44	YL2	YL44	3.40E+04	2.13E+02	3.42E+04
0 YL27YL44	YL27	YL44	8.18E+05	3.01E+05	1.12E+06
24 YL27YL44	YL27	YL44	3.25E+05	6.00E+04	3.85E+05
48 YL27YL44	YL27	YL44	8.40E+05	6.83E+03	8.47E+05
72 YL27YL44	YL27	YL44	1.30E+06	7.00E+03	1.31E+06
0 YL31YL44	YL31	YL44	5.80E+04	3.08E+05	3.66E+05
24 YL31YL44	YL31	YL44	9.35E+04	4.83E+05	5.77E+05
48 YL31YL44	YL31	YL44	3.67E+04	4.77E+05	5.13E+05
72 YL31YL44	YL31	YL44	1.37E+05	5.20E+05	6.57E+05
0 YL32YL44	YL32	YL44	4.14E+04	3.60E+05	4.01E+05
24 YL32YL44	YL32	YL44	8.06E+04	2.38E+05	3.19E+05
48 YL32YL44	YL32	YL44	6.62E+04	3.90E+03	7.01E+04

72 YL32YL44	YL32	YL44	8.12E+04	2.75E+03	8.40E+04
0 KB1YL45	KB1	YL45	1.42E+05	8.95E+04	2.31E+05
24 KB1YL45	KB1	YL45	4.88E+05	6.53E+04	5.53E+05
48 KB1YL45	KB1	YL45	4.70E+05	4.90E+04	5.19E+05
72 KB1YL45	KB1	YL45	1.51E+05	4.20E+04	1.93E+05
0 KB18YL45	KB18	YL45	4.37E+04	1.07E+05	1.50E+05
24 KB18YL45	KB18	YL45	3.82E+04	6.28E+04	1.01E+05
48 KB18YL45	KB18	YL45	5.75E+02	6.73E+04	6.79E+04
72 KB18YL45	KB18	YL45	4.84E+00	1.37E+05	1.37E+05
0 YL2YL45	YL2	YL45	4.37E+05	1.29E+05	5.66E+05
24 YL2YL45	YL2	YL45	4.60E+05	6.83E+04	5.28E+05
48 YL2YL45	YL2	YL45	3.47E+05	9.60E+04	4.43E+05
72 YL2YL45	YL2	YL45	2.05E+04	5.77E+03	2.63E+04
0 YL27YL45	YL27	YL45	3.53E+05	1.15E+05	4.68E+05
24 YL27YL45	YL27	YL45	4.00E+05	1.80E+05	5.80E+05
48 YL27YL45	YL27	YL45	4.53E+05	1.34E+05	5.87E+05
72 YL27YL45	YL27	YL45	4.75E+05	1.10E+05	5.85E+05
0 YL31YL45	YL31	YL45	8.20E+04	1.26E+05	2.08E+05
24 YL31YL45	YL31	YL45	1.62E+05	6.40E+04	2.26E+05
48 YL31YL45	YL31	YL45	1.60E+05	7.10E+04	2.31E+05
72 YL31YL45	YL31	YL45	1.49E+05	7.15E+04	2.20E+05
0 YL32YL45	YL32	YL45	5.10E+04	8.55E+04	1.37E+05
24 YL32YL45	YL32	YL45	9.66E+04	4.28E+04	1.39E+05
48 YL32YL45	YL32	YL45	1.10E+05	5.87E+04	1.69E+05
72 YL32YL45	YL32	YL45	7.70E+04	4.77E+04	1.25E+05
0 YL44YL45	YL44	YL45	3.90E+05	1.09E+05	4.99E+05
24 YL44YL45	YL44	YL45	1.17E+06	7.58E+04	1.25E+06
48 YL44YL45	YL44	YL45	4.27E+05	6.55E+04	4.92E+05
72 YL44YL45	YL44	YL45	1.12E+06	5.30E+04	1.17E+06
0 I46YL58	I46	YL58	3.55E+05	4.58E+05	8.13E+05
24 I46YL58	I46	YL58	3.95E+05	6.90E+05	1.09E+06
48 I46YL58	I46	YL58	3.73E+05	1.04E+06	1.42E+06
72 I46YL58	I46	YL58	1.27E+05	1.96E+06	2.09E+06
0 I48YL58	I48	YL58	6.17E+05	4.32E+05	1.05E+06
24 I48YL58	I48	YL58	6.07E+05	1.67E+06	2.28E+06
48 I48YL58	I48	YL58	5.77E+05	1.10E+06	1.67E+06
72 I48YL58	I48	YL58	5.77E+05	1.83E+06	2.41E+06
0 I49YL58	I49	YL58	1.03E+05	5.66E+05	6.69E+05
24 I49YL58	I49	YL58	1.28E+04	1.88E+06	1.89E+06
48 I49YL58	I49	YL58	1.33E+02	1.39E+06	1.39E+06
72 I49YL58	I49	YL58	2.77E-01	2.00E+06	2.00E+06
0 KB1YL58	KB1	YL58	1.25E+05	4.76E+05	6.01E+05
24 KB1YL58	KB1	YL58	1.58E+05	4.22E+05	5.80E+05
48 KB1YL58	KB1	YL58	1.47E+05	2.84E+05	4.31E+05
72 KB1YL58	KB1	YL58	1.09E+05	4.64E+05	5.73E+05
0 KB18YL58	KB18	YL58	4.54E+00	6.60E+05	6.60E+05
24 KB18YL58	KB18	YL58	3.03E+04	1.74E+06	1.77E+06
48 KB18YL58	KB18	YL58	1.15E+04	1.47E+06	1.48E+06

72 KB18YL58	KB18	YL58	4.33E+02	1.80E+06	1.80E+06
0 YL2YL58	YL2	YL58	4.50E+05	6.18E+05	1.07E+06
24 YL2YL58	YL2	YL58	2.79E+05	6.36E+05	9.15E+05
48 YL2YL58	YL2	YL58	3.29E+05	8.58E+05	1.19E+06
72 YL2YL58	YL2	YL58	1.21E+05	1.11E+05	2.33E+05
0 YL27YL58	YL27	YL58	4.50E+05	7.58E+05	1.21E+06
24 YL27YL58	YL27	YL58	2.88E+05	1.41E+06	1.70E+06
48 YL27YL58	YL27	YL58	1.59E+04	1.48E+06	1.49E+06
72 YL27YL58	YL27	YL58	2.08E+02	1.92E+06	1.92E+06
0 YL31YL58	YL31	YL58	2.00E+02	5.02E+05	5.02E+05
24 YL31YL58	YL31	YL58	1.69E+05	1.38E+06	1.55E+06
48 YL31YL58	YL31	YL58	1.61E+05	1.32E+06	1.48E+06
72 YL31YL58	YL31	YL58	9.05E+03	1.63E+06	1.64E+06
0 YL32YL58	YL32	YL58	4.48E+07	2.84E+05	4.51E+07
24 YL32YL58	YL32	YL58	1.47E+07	1.14E+06	1.59E+07
48 YL32YL58	YL32	YL58	8.46E+06	1.01E+06	9.47E+06
72 YL32YL58	YL32	YL58	1.27E+07	8.40E+05	1.36E+07
0 YL44YL58	YL44	YL58	3.27E+03	6.96E+05	6.99E+05
24 YL44YL58	YL44	YL58	2.86E+05	1.29E+06	1.58E+06
48 YL44YL58	YL44	YL58	3.53E+04	1.90E+06	1.94E+06
72 YL44YL58	YL44	YL58	7.97E+03	1.66E+06	1.67E+06
0 YL45YL58	YL45	YL58	3.73E+04	6.50E+05	6.87E+05
24 YL45YL58	YL45	YL58	3.62E+04	2.26E+06	2.30E+06
48 YL45YL58	YL45	YL58	3.07E+04	1.46E+06	1.49E+06
72 YL45YL58	YL45	YL58	2.83E+04	1.95E+06	1.98E+06
0 I46 Mono	I46		8.23E+05		8.23E+05
24 I46 Mono	I46		6.30E+05		6.30E+05
48 I46 Mono	I46		3.83E+05		3.83E+05
72 I46 Mono	I46		3.53E+05		3.53E+05
0 I48 Mono	I48		1.18E+06		1.18E+06
24 I48 Mono	I48		2.13E+06		2.13E+06
48 I48 Mono	I48		1.71E+06		1.71E+06
72 I48 Mono	I48		2.16E+06		2.16E+06
0 KB1 Mono	KB1		3.13E+05		3.13E+05
24 KB1 Mono	KB1		1.85E+05		1.85E+05
48 KB1 Mono	KB1		1.52E+05		1.52E+05
72 KB1 Mono	KB1		1.12E+05		1.12E+05
0 KB18 Mono	KB18		7.60E+04		7.60E+04
24 KB18 Mono	KB18		4.18E+04		4.18E+04
48 KB18 Mono	KB18		3.64E+04		3.64E+04
72 KB18 Mono	KB18		2.92E+04		2.92E+04
0 YL2 Mono	YL2		6.13E+05		6.13E+05
24 YL2 Mono	YL2		3.90E+05		3.90E+05
48 YL2 Mono	YL2		2.34E+05		2.34E+05
72 YL2 Mono	YL2		5.80E+05		5.80E+05
0 YL27 Mono	YL27		1.27E+06		1.27E+06
24 YL27 Mono	YL27		6.93E+05		6.93E+05
48 YL27 Mono	YL27		2.75E+05		2.75E+05



72 YL27 Mono	YL27	2.21E+06	2.21E+06
0 YL31 Mono	YL31	5.55E+05	5.55E+05
24 YL31 Mono	YL31	3.27E+05	3.27E+05
48 YL31 Mono	YL31	3.04E+05	3.04E+05
72 YL31 Mono	YL31	3.71E+05	3.71E+05
0 YL32 Mono	YL32	3.32E+07	3.32E+07
24 YL32 Mono	YL32	3.52E+07	3.52E+07
48 YL32 Mono	YL32	4.38E+07	4.38E+07
72 YL32 Mono	YL32	4.20E+07	4.20E+07
0 YL44 Mono	YL44	6.60E+05	6.60E+05
24 YL44 Mono	YL44	8.37E+05	8.37E+05
48 YL44 Mono	YL44	5.43E+05	5.43E+05
72 YL44 Mono	YL44	1.16E+06	1.16E+06
0 YL45 Mono	YL45	6.95E+04	6.95E+04
24 YL45 Mono	YL45	7.38E+04	7.38E+04
48 YL45 Mono	YL45	6.08E+04	6.08E+04
72 YL45 Mono	YL45	7.25E+04	7.25E+04
0 YL58 Mono	YL58	1.78E+06	1.78E+06
24 YL58 Mono	YL58	2.72E+06	2.72E+06
48 YL58 Mono	YL58	2.12E+06	2.12E+06
72 YL58 Mono	YL58	2.64E+06	2.64E+06

relativ abundarelativ abundance probe 2

0.09	0.91
0.78	0.22
0.96	0.04
0.95	0.05
0.00	1.00
0.06	0.94
0.02	0.98
0.00	1.00
0.47	0.53
0.54	0.46
0.35	0.65
0.92	0.08
0.33	0.67
0.25	0.75
0.14	0.86
0.14	0.86
0.19	0.81
0.17	0.83
0.09	0.91
0.11	0.89
0.01	0.99
0.01	0.99
0.01	0.99
0.01	0.99
0.00	1.00
0.27	0.73
0.06	0.94
0.00	1.00
0.08	0.92
0.07	0.93
0.07	0.93
0.06	0.94
0.66	0.34
0.14	0.86
0.71	0.29
0.24	0.76
0.27	0.73
0.87	0.13
0.95	0.05
0.48	0.52
0.03	0.97
0.00	1.00
0.00	1.00
0.00	1.00
0.40	0.60
0.64	0.36
0.24	0.76

0.32	0.68
0.03	0.97
0.51	0.49
0.09	0.91
0.04	0.96
0.13	0.87
0.14	0.86
0.04	0.96
0.07	0.93
0.01	0.99
0.01	0.99
0.05	0.95
0.01	0.99
0.46	0.54
0.04	0.96
0.00	1.00
0.00	1.00
0.09	0.91
0.03	0.97
0.05	0.95
0.04	0.96
0.85	0.15
0.98	0.02
1.00	0.00
1.00	0.00
0.93	0.07
0.97	0.03
0.98	0.02
0.98	0.02
0.46	0.54
0.97	0.03
0.98	0.02
1.00	0.00
0.23	0.77
0.35	0.65
0.06	0.94
0.06	0.94
0.84	0.16
0.95	0.05
0.99	0.01
0.99	0.01
0.84	0.16
0.90	0.10
0.87	0.13
0.89	0.11
0.49	0.51
0.73	0.27
1.00	0.00

1.00	0.00
0.37	0.63
0.13	0.87
0.22	0.78
0.23	0.77
0.82	0.18
0.35	0.65
0.04	0.96
0.02	0.98
0.45	0.55
0.57	0.43
0.68	0.32
0.32	0.68
0.77	0.23
0.90	0.10
1.00	0.00
1.00	0.00
0.94	0.06
1.00	0.00
0.98	0.02
1.00	0.00
0.16	0.84
0.66	0.34
0.99	0.01
1.00	0.00
0.52	0.48
0.61	0.39
1.00	0.00
1.00	0.00
0.07	0.93
0.04	0.96
0.00	1.00
0.00	1.00
0.39	0.61
0.67	0.33
0.44	0.56
0.48	0.52
0.16	0.84
0.67	0.33
0.63	0.37
0.55	0.45
0.06	0.94
0.05	0.95
0.03	0.97
0.02	0.98
0.29	0.71
0.42	0.58
0.38	0.62

1.00	0.00
0.44	0.56
0.53	0.47
0.63	0.37
0.65	0.35
0.71	0.29
0.87	0.13
0.97	0.03
0.92	0.08
0.00	1.00
0.39	0.61
0.21	0.79
0.00	1.00
0.87	0.13
0.85	0.15
0.95	0.05
0.86	0.14
0.88	0.12
0.91	0.09
0.69	0.31
0.73	0.27
0.27	0.73
0.81	0.19
0.78	0.22
0.40	0.60
0.59	0.41
0.78	0.22
1.00	0.00
1.00	0.00
0.05	0.95
0.04	0.96
0.00	1.00
0.01	0.99
0.18	0.82
0.91	0.09
0.99	0.01
0.99	0.01
0.73	0.27
0.84	0.16
0.99	0.01
0.99	0.01
0.16	0.84
0.16	0.84
0.07	0.93
0.21	0.79
0.10	0.90
0.25	0.75
0.94	0.06

0.97	0.03
0.61	0.39
0.88	0.12
0.91	0.09
0.78	0.22
0.29	0.71
0.38	0.62
0.01	0.99
0.00	1.00
0.77	0.23
0.87	0.13
0.78	0.22
0.78	0.22
0.75	0.25
0.69	0.31
0.77	0.23
0.81	0.19
0.40	0.60
0.72	0.28
0.69	0.31
0.68	0.33
0.37	0.63
0.69	0.31
0.65	0.35
0.62	0.38
0.78	0.22
0.94	0.06
0.87	0.13
0.95	0.05
0.44	0.56
0.36	0.64
0.26	0.74
0.06	0.94
0.59	0.41
0.27	0.73
0.34	0.66
0.24	0.76
0.15	0.85
0.01	0.99
0.00	1.00
0.00	1.00
0.21	0.79
0.27	0.73
0.34	0.66
0.19	0.81
0.00	1.00
0.02	0.98
0.01	0.99







coculture	probe	exp1_copies/5ng gDNA (16S	exp2_copies/5ng gDNA (16S	exp3_copies/5ng gDNA (16S	corrected)
I46 Mono	I46	4.83E+05	3.53E+05	4.88E+05	
YL27I46	I46	6.64E+05	6.83E+05	4.33E+05	
YL44I46	I46	2.41E+05	6.53E+05	2.36E+05	
YL31I46	I46	3.65E+05	5.50E+05	3.78E+05	
YL32I46	I46	3.15E+05	6.75E+05	4.03E+05	
YL2I46	I46	4.34E+05	1.56E+04	4.23E+05	
I46I48	I46	4.96E+05	1.69E+05	5.13E+05	
I46I49	I46	2.95E+05	2.88E+05	6.39E+05	
I46YL58	I46	9.92E+04	1.27E+05	9.67E+04	
KB18I46	I46	4.00E+05	5.58E+05	4.17E+05	
YL45I46	I46	4.39E+05	5.40E+05	5.97E+05	
KB1I46	I46	1.08E+04	1.58E+04	1.11E+04	
KB1I48	I48	4.25E+04	6.03E+04	5.69E+04	
I48I49	I48	8.83E+05	2.29E+06	9.77E+05	
YL27I48	I48	9.21E+05	1.45E+06	1.08E+06	
YL44I48	I48	9.29E+05	3.63E+05	1.16E+06	
I48YL58	I48	3.19E+05	5.77E+05	3.48E+05	
YL31I48	I48	7.50E+05	9.03E+05	1.10E+06	
YL32I48	I48	9.07E+05	8.83E+05	8.75E+05	
I46I48	I48	2.38E+05	5.40E+05	3.54E+05	
I48 Mono	I48	7.33E+05	2.16E+06	1.06E+06	
YL2I48	I48	7.41E+05	4.47E+04	6.57E+05	
KB18I48	I48	1.06E+06	1.95E+06	1.14E+06	
YL45I48	I48	1.06E+06	1.39E+06	1.00E+06	
YL45I49	I49	2.51E+05	1.82E+05	2.77E+05	
KB18I49	I49	4.30E+05	2.38E+05	4.14E+05	
I48I49	I49	1.41E+04	3.58E+04	9.02E+03	
KB1I49	I49	2.88E+00	5.75E+02	6.97E+02	
YL27I49	I49	1.64E+04	7.20E+04	1.42E+05	
YL44I49	I49	1.24E+05	1.93E+05	2.28E+05	
YL31I49	I49	6.99E-01	1.43E+00	4.84E-01	
YL32I49	I49	1.51E+05	1.11E+05	2.03E+05	
I46I49	I49	-	-	-	
I49YL58	I49	1.38E+01	2.77E-01	6.18E+01	
YL2I49	I49	2.44E+03	4.30E+02	1.02E+05	
I49 Mono	I49	3.45E+05	5.12E+05	2.05E+05	
KB1YL2	KB1	8.91E+04	1.47E+05	1.55E+05	
KB1I48	KB1	4.47E+04	5.63E+04	2.28E+05	
KB1KB18	KB1	1.65E+05	2.44E+05	2.07E+05	
KB1I49	KB1	4.73E+04	1.47E+05	5.65E+04	
KB1YL27	KB1	1.11E+05	3.55E+05	8.65E+04	
KB1YL58	KB1	3.57E+04	1.09E+05	2.14E+05	
KB1YL31	KB1	1.82E+05	2.63E+05	1.25E+05	
KB1YL32	KB1	8.12E+04	1.73E+05	1.94E+05	
KB1 Mono	KB1	6.60E+04	1.12E+05	1.79E+05	
KB1YL44	KB1	1.84E+05	2.00E+05	1.72E+05	
KB1YL45	KB1	7.73E+04	1.51E+05	2.43E+05	

KB1I46	KB1		2.67E+05	3.18E+05	5.03E+05
KB18I49	KB18		5.51E+03	1.42E+04	4.57E+04
KB1KB18	KB18	-		6.55E+00	5.33E+01
KB18YL27	KB18	-		3.16E+00	1.15E+03
KB18YL58	KB18	-		4.33E+02	2.19E+00
KB18YL31	KB18		5.33E+03	1.49E+04	6.69E+03
KB18YL32	KB18	-		2.08E+00	2.06E+00
KB18 Mono	KB18		8.44E+03	2.92E+04	2.54E+04
KB18YL44	KB18		2.99E+03	8.65E+03	1.20E+04
YL2KB18	KB18	-			4.54E+03
KB18YL45	KB18		3.60E+00	4.84E+00	3.84E+00
KB18I46	KB18		1.36E+02	2.32E+03	3.76E+02
KB18I48	KB18	-		3.63E+00	3.95E+00
YL2KB1	YL2		6.30E+03	3.11E+02	3.03E+04
YL2YL32	YL2		1.87E+05	1.89E+04	3.16E+05
YL2 Mono	YL2		2.45E+05	5.80E+05	7.34E+05
YL2YL44	YL2	-		3.40E+04	7.03E+05
YL2YL45	YL2		2.14E+05	2.05E+04	1.47E+05
YL2I46	YL2		6.93E+04	1.72E+05	7.26E+04
YL2I48	YL2		1.78E+05	2.06E+04	3.52E+05
YL2KB18	YL2		4.24E+05	4.60E+05	7.12E+05
YL2I49	YL2		4.79E+05	4.20E+04	3.30E+05
YL2YL27	YL2		1.33E+05	3.29E+05	4.75E+05
YL2YL58	YL2		3.65E+04	1.21E+05	1.63E+04
YL2YL31	YL2		2.19E+05	4.20E+03	7.46E+05
YL27I46	YL27		9.25E+04	1.09E+05	2.48E+05
KB18YL27	YL27		2.74E+06	1.24E+06	1.10E+06
YL27I48	YL27		2.23E+04	5.88E+04	8.06E+03
KB1YL27	YL27		4.87E+00	5.08E+00	3.12E+03
YL27I49	YL27		9.88E+05	5.78E+05	5.11E+05
YL27YL58	YL27		3.86E+01	2.08E+02	5.40E+01
YL27YL31	YL27		1.86E+06	1.48E+06	9.01E+05
YL27YL32	YL27		2.13E+05	2.50E+05	2.17E+05
YL27 Mono	YL27		2.34E+06	2.21E+06	1.21E+06
YL2YL27	YL27		1.43E+05	3.50E+05	2.77E+05
YL27YL44	YL27		3.72E+06	1.30E+06	1.23E+06
YL27YL45	YL27		3.96E+05	4.75E+05	2.40E+05
YL31YL45	YL31		8.56E+05	1.49E+05	1.42E+06
YL31I46	YL31		1.81E+05	6.80E+04	3.40E+05
KB18YL31	YL31		6.24E+05	7.90E+05	8.13E+05
YL31I48	YL31		1.13E+06	6.90E+04	8.64E+05
KB1YL31	YL31		2.18E+05	2.12E+05	1.86E+05
YL31I49	YL31		4.71E+05	1.01E+05	4.86E+05
YL27YL31	YL31		6.75E+05	8.00E+05	1.82E+05
YL31YL58	YL31		2.85E+02	9.05E+03	1.54E+03
YL31YL32	YL31		8.81E+04	4.91E+04	2.20E+05
YL31 Mono	YL31		7.69E+05	3.71E+05	9.74E+05
YL2YL31	YL31		4.80E+05		9.08E+05

YL31YL44	YL31	4.11E+05	1.37E+05	1.13E+06
YL2YL32	YL32	1.94E+04	2.96E+03	2.00E+04
YL32YL45	YL32	4.85E+04	7.70E+04	4.56E+04
YL32I46	YL32	2.74E+04	9.72E+03	2.40E+04
YL32I48	YL32	6.11E+04	1.26E+04	6.12E+04
KB18YL32	YL32	3.77E+04	8.98E+04	5.90E+04
YL32I49	YL32	2.97E+04	3.38E+04	2.77E+04
KB1YL32	YL32	1.23E+04	1.43E+04	7.68E+03
YL32YL58	YL32	1.81E+04	1.27E+07	1.43E+04
YL27YL32	YL32	7.21E+04	9.16E+04	7.14E+04
YL31YL32	YL32	-	7.26E+04	5.51E+04
YL32 Mono	YL32	6.26E+04	4.20E+07	5.88E+04
YL32YL44	YL32	4.89E+04	8.12E+04	4.33E+04
YL44I46	YL44	4.08E+02	1.01E+03	8.95E+02
YL2YL44	YL44	2.58E+03	2.13E+02	5.36E+03
YL44I48	YL44	1.29E+02	4.90E+02	5.10E+02
YL44I49	YL44	6.40E+02	3.87E+03	4.13E+03
YL44YL58	YL44	2.01E+03	7.97E+03	1.60E+03
KB18YL44	YL44	8.04E+05	7.20E+05	7.70E+05
KB1YL44	YL44	2.16E+02	3.08E+02	5.84E+02
YL44 Mono	YL44	6.26E+05	1.16E+06	7.78E+05
YL27YL44	YL44	2.16E+03	7.00E+03	1.91E+04
YL31YL44	YL44	4.09E+05	5.20E+05	7.60E+05
YL32YL44	YL44	2.15E+03	2.75E+03	4.77E+01
YL44YL45	YL44	3.35E+05	1.12E+06	5.54E+05
YL45I49	YL45	1.27E+05	8.72E+04	1.19E+05
YL31YL45	YL45	7.03E+04	7.15E+04	8.73E+04
YL32YL45	YL45	5.50E+04	4.77E+04	7.44E+04
YL45YL58	YL45	3.04E+04	2.83E+04	1.20E+05
YL2YL45	YL45	1.38E+05	5.77E+03	-
YL45 Mono	YL45	7.48E+04	7.25E+04	1.05E+05
KB18YL45	YL45	1.45E+05	1.37E+05	1.19E+05
KB1YL45	YL45	5.28E+04	4.20E+04	2.23E+04
YL45I46	YL45	3.37E+04	3.20E+04	5.10E+04
YL27YL45	YL45	1.31E+05	1.31E+05	1.32E+05
YL44YL45	YL45	6.52E+04	6.52E+04	7.24E+04
YL45I48	YL45	9.04E+04	9.04E+04	5.93E+04
YL45YL58	YL58	9.13E+05	1.95E+06	1.30E+06
YL58 Mono	YL58	1.82E+06	2.64E+06	1.80E+06
KB18YL58	YL58	9.92E+05	1.80E+06	1.34E+06
I48YL58	YL58	1.25E+06	1.83E+06	1.37E+06
KB1YL58	YL58	2.26E+05	4.64E+05	4.28E+05
YL27YL58	YL58	1.49E+06	1.92E+06	1.50E+06
YL44YL58	YL58	1.05E+06	1.66E+06	1.34E+06
YL31YL58	YL58	-	1.63E+06	1.91E+06
YL32YL58	YL58	1.23E+06	8.40E+05	8.37E+05
I49YL58	YL58	1.35E+06	2.00E+06	1.64E+06
I46YL58	YL58	1.58E+06	1.96E+06	1.92E+06

YL2YL58	YL58	1.31E+06	1.11E+05	1.26E+06
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coku	probe	group	mean_rbm	sd	*rbm: abs. ab
KB1YL2	KB1	co	1.1761406	0.26931087	
KB1I48	KB1	co	0.81789811	0.40431018	
KB1KB18	KB1	co	1.94499867	0.701581	
KB1I49	KB1	co	0.78160304	0.50159126	
KB1YL27	KB1	co	1.77823375	1.3457941	
KB1YL58	KB1	co	0.90321803	0.33287682	
KB1YL31	KB1	co	1.93470469	1.09012479	
KB1YL32	KB1	co	1.28624826	0.2354606	
KB1 Mono	KB1	mono		1	0
KB1YL44	KB1	co	1.84482898	0.9149259	
KB1YL45	KB1	co	1.29232277	0.10498854	
KB1I46	KB1	co	3.23159871	0.70497134	
YL2KB1	YL2	co	0.02251038	0.02056031	
YL2YL32	YL2	co	0.40878974	0.36582382	
YL2 Mono	YL2	mono		1	0
YL2YL44	YL2	co	0.33879545	0.53684466	
YL2YL45	YL2	co	0.36969557	0.444006	
YL2I46	YL2	co	0.22610632	0.11036778	
YL2I48	YL2	co	0.41387063	0.35015937	
YL2KB18	YL2	co	1.16458098	0.4981155	
YL2I49	YL2	co	0.82570237	0.99610412	
YL2YL27	YL2	co	0.58574583	0.05454801	
YL2YL58	YL2	co	0.12660246	0.09520011	
YL2YL31	YL2	co	0.6391559	0.55066939	
KB18I49	KB18	co	0.97945252	0.71479998	
KB1KB18	KB18	co	0.00077425	0.00115224	
KB18YL27	KB18	co	0.01512794	0.02610869	
KB18YL58	KB18	co	0.00497166	0.00853661	
KB18YL31	KB18	co	0.46839213	0.18760499	
KB18YL32	KB18	co	5.08E-05	4.43E-05	
KB18 Mono	KB18	mono		1	0
KB18YL44	KB18	co	0.37431308	0.0897984	
YL2KB18	KB18	co	0.05958005	0.10319568	
KB18YL45	KB18	co	0.00024783	0.00015494	
KB18I46	KB18	co	0.03678965	0.03695254	
KB18I48	KB18	co	9.33E-05	8.23E-05	
YL27I46	YL27	co	0.09793662	0.09281303	
KB18YL27	YL27	co	0.88037235	0.3059397	
YL27I48	YL27	co	0.0142658	0.01078304	
KB1YL27	YL27	co	0.00086096	0.00148744	
YL27I49	YL27	co	0.36869158	0.09279733	
YL27YL58	YL27	co	5.17E-05	3.93E-05	
YL27YL31	YL27	co	0.73639438	0.06299911	
YL27YL32	YL27	co	0.12782889	0.04595673	
YL27 Mono	YL27	mono		1	0
YL2YL27	YL27	co	0.14946926	0.08426066	
YL27YL44	YL27	co	1.06483594	0.50249865	

YL27YL45	YL27	co	0.19417	0.02313525
YL31YL45	YL31	co	0.99088558	0.53865085
YL31I46	YL31	co	0.25591167	0.08478107
KB18YL31	YL31	co	1.25850858	0.75428647
YL31I48	YL31	co	0.84749611	0.64264272
KB1YL31	YL31	co	0.34862624	0.19842038
YL31I49	YL31	co	0.46123142	0.17323471
YL27YL31	YL31	co	1.07365196	0.99924377
YL31YL58	YL31	co	0.00878175	0.01353374
YL31YL32	YL31	co	0.15759402	0.05979565
YL31 Mono	YL31	mono	1	0
YL2YL31	YL31	co	0.51880848	0.47496897
YL31YL44	YL31	co	0.68796562	0.41719355
YL2YL32	YL32	co	0.21670356	0.18821773
YL32YL45	YL32	co	0.51736797	0.44646625
YL32I46	YL32	co	0.28203146	0.24449242
YL32I48	YL32	co	0.67238489	0.58294307
KB18YL32	YL32	co	0.53592529	0.50391458
YL32I49	YL32	co	0.3154447	0.27249133
KB1YL32	YL32	co	0.10914612	0.09981897
YL32YL58	YL32	co	0.27823854	0.03106067
YL27YL32	YL32	co	0.78940795	0.68247507
YL31YL32	YL32	co	0.31293447	0.5405221
YL32 Mono	YL32	mono	1	0
YL32YL44	YL32	co	0.50649268	0.43753385
YL44I46	YL44	co	0.00089094	0.00024993
YL2YL44	YL44	co	0.0037315	0.00336988
YL44I48	YL44	co	0.000428	0.00022478
YL44I49	YL44	co	0.00322235	0.00214533
YL44YL58	YL44	co	0.00404604	0.00251339
KB18YL44	YL44	co	0.96491731	0.33252203
KB1YL44	YL44	co	0.00045374	0.00026019
YL44 Mono	YL44	mono	1	0
YL27YL44	YL44	co	0.01134503	0.0115087
YL31YL44	YL44	co	0.69283142	0.26649597
YL32YL44	YL44	co	0.0019555	0.0017245
YL44YL45	YL44	co	0.73758109	0.21631684
YL45I49	YL45	co	1.34465097	0.30785214
YL31YL45	YL45	co	0.91915835	0.07943467
YL32YL45	YL45	co	0.70059886	0.03929291
YL45YL58	YL45	co	0.64653969	0.42989864
YL2YL45	YL45	co	0.641502	1.04294979
YL45 Mono	YL45	mono	1	0
KB18YL45	YL45	co	1.65383039	0.45142487
KB1YL45	YL45	co	0.49919122	0.25632053
YL45I46	YL45	co	0.45920945	0.02340588
YL27YL45	YL45	co	1.60512544	0.30263943
YL44YL45	YL45	co	0.82016397	0.11397941

YL45I48	YL45	co	1.0067382	0.38324246
I46 Mono	I46	mono	1	0
YL27I46	I46	co	1.39896016	0.52419434
YL44I46	I46	co	0.94414324	0.78440989
YL31I46	I46	co	1.02945247	0.45789687
YL32I46	I46	co	1.1300583	0.68288031
YL2I46	I46	co	0.60318221	0.48435936
I46I48	I46	co	0.85229939	0.32372855
I46I49	I46	co	0.91201877	0.35911811
I46YL58	I46	co	0.25443738	0.09129519
KB18I46	I46	co	1.0878007	0.42709824
YL45I46	I46	co	1.22066946	0.31042993
KB1I46	I46	co	0.02995512	0.01282217
KB1I48	I48	co	0.0465256	0.01625871
I48I49	I48	co	1.06217392	0.14148066
YL27I48	I48	co	0.98221481	0.29430876
YL44I48	I48	co	0.84326315	0.59111416
I48YL58	I48	co	0.34354311	0.08506439
YL31I48	I48	co	0.82632792	0.35364901
YL32I48	I48	co	0.82388287	0.41429445
I46I48	I48	co	0.3028851	0.04603374
I48 Mono	I48	mono	1	0
YL2I48	I48	co	0.55047327	0.49873795
KB18I48	I48	co	1.14145378	0.27761162
YL45I48	I48	co	1.01100887	0.40554608
YL45I49	I49	co	0.81140817	0.50314587
KB18I49	I49	co	1.24357759	0.777338
I48I49	I49	co	0.05159715	0.01594668
KB1I49	I49	co	0.00151047	0.0017287
YL27I49	I49	co	0.29361472	0.34872332
YL44I49	I49	co	0.61618951	0.4296429
YL31I49	I49	co	2.39E-06	3.84E-07
YL32I49	I49	co	0.54824065	0.39840008
I46I49	I49	co	0	0
I49YL58	I49	co	0.000114	0.00016354
YL2I49	I49	co	0.16849109	0.28499992
I49 Mono	I49	mono	1	0
YL45YL58	YL58	co	0.65416898	0.13234146
YL58 Mono	YL58	mono	1	0
KB18YL58	YL58	co	0.65710586	0.10196601
I48YL58	YL58	co	0.71370204	0.04118076
KB1YL58	YL58	co	0.17923706	0.05688085
YL27YL58	YL58	co	0.79309579	0.05747328
YL44YL58	YL58	co	0.6500518	0.08576111
YL31YL58	YL58	co	0.55951179	0.53292081
YL32YL58	YL58	co	0.48633533	0.17977322
I49YL58	YL58	co	0.8034817	0.09354473
I46YL58	YL58	co	0.89240759	0.16347866

YL2YL58

YL58

co

0.48727523 0.38570711



Abundance in co-culture relative to monoculture

	mean_pH	sd
Blank_M1	7.12	0.01
Blank_M2	7.22	0.09
Blank_M4	7.2	0.07
Blank_M8	7.01	0.21
Blank_M10	6.98	0.1
Blank_M11	7.22	0.24
OMM_M1	6.2	0.02
OMM_M2	7	0.66
OMM_M4	7.03	0.35
OMM_M8	6.32	0.42
OMM_M10	5.72	0.14
OMM_M11	6.46	0.38
OMM-1_M1	5.87	0.03
OMM-1_M2	6.76	0.24
OMM-1_M4	6.72	0.45
OMM-1_M8	6.21	0.13
OMM-1_M10	5.69	0.17
OMM-1_M11	6.35	0.09

\*OMM: full consortium, OMM-1: dropout

\*\*M: different growth media

\*\*\*Blank: fresh growth media

t consortium without E. faecalis KB1

sample	KB1	YL2	KB18	YL27
E4_OMM_D10_M1_W1	1.08E+09	0.00E+00	6.56E+05	4.66E+08
E4_OMM_D10_M1_W2	5.23E+08	0.00E+00	7.46E+05	4.51E+08
E4_OMM_D10_M1_W3	0.00E+00	0.00E+00	1.92E+06	4.14E+08
E4_OMM_D10_M1_W4	1.02E+09	0.00E+00	7.29E+05	3.65E+08
E4_OMM_D10_M1_W5	1.38E+09	0.00E+00	5.07E+05	3.40E+08
E4_OMM_Inok_Inok_Inok	4.28E+06	7.24E+06	1.06E+04	1.40E+07
E4_OMM-1_Inok_Inok_Inok	4.40E+04	4.25E+07	4.07E+04	7.25E+07
E4_OMM-1_D10_M1_W1	0.00E+00	6.41E+08	0.00E+00	1.71E+08
E4_OMM-1_D10_M1_W2	0.00E+00	4.44E+08	0.00E+00	1.56E+08
E4_OMM-1_D10_M1_W3	0.00E+00	3.09E+08	0.00E+00	1.80E+08
E4_OMM-1_D10_M1_W4	0.00E+00	6.17E+08	0.00E+00	2.35E+08
E4_OMM-1_D10_M1_W5	0.00E+00	2.59E+08	0.00E+00	7.27E+07
E5_OMM-1_D10_M10_W1	0.00E+00	7.90E+07	0.00E+00	0.00E+00
E5_OMM-1_D10_M10_W2	0.00E+00	1.22E+08	0.00E+00	0.00E+00
E5_OMM-1_D10_M10_W3	0.00E+00	2.67E+08	0.00E+00	0.00E+00
E5_OMM-1_D10_M10_W4	0.00E+00	1.02E+06	0.00E+00	0.00E+00
E5_OMM-1_D10_M10_W5	0.00E+00	6.61E+07	0.00E+00	0.00E+00
E5_OMM-1_D10_M11_W1	0.00E+00	5.36E+07	0.00E+00	2.37E+08
E5_OMM-1_D10_M11_W2	0.00E+00	6.54E+07	0.00E+00	2.84E+08
E5_OMM-1_D10_M11_W3	0.00E+00	4.76E+07	0.00E+00	2.37E+08
E5_OMM-1_D10_M11_W4	0.00E+00	4.22E+07	0.00E+00	3.59E+08
E5_OMM-1_D10_M11_W5	0.00E+00	5.88E+07	0.00E+00	2.25E+08
E5_OMM-1_D10_M4_W1	0.00E+00	1.39E+08	0.00E+00	3.33E+08
E5_OMM-1_D10_M4_W2	0.00E+00	9.08E+07	0.00E+00	1.79E+08
E5_OMM-1_D10_M4_W3	0.00E+00	1.45E+08	0.00E+00	2.11E+08
E5_OMM-1_D10_M4_W4	0.00E+00	7.10E+07	0.00E+00	1.96E+08
E5_OMM-1_D10_M4_W5	0.00E+00	1.99E+08	0.00E+00	3.22E+08
E5_OMM-1_D10_M8_W1	0.00E+00	8.17E+07	0.00E+00	1.33E+08
E5_OMM-1_D10_M8_W2	0.00E+00	9.77E+07	0.00E+00	2.04E+08
E5_OMM-1_D10_M8_W3	0.00E+00	1.75E+07	0.00E+00	5.47E+07
E5_OMM-1_D10_M8_W4	0.00E+00	6.78E+07	0.00E+00	1.56E+08
E5_OMM-1_D10_M8_W5	0.00E+00	6.45E+07	0.00E+00	3.14E+08
E5_OMM-1_D10_M1_W1	0.00E+00	2.04E+08	0.00E+00	2.54E+08
E5_OMM-1_D10_M1_W2	0.00E+00	8.64E+07	0.00E+00	2.60E+08
E5_OMM-1_D10_M1_W3	0.00E+00	4.86E+08	0.00E+00	3.46E+08
E5_OMM-1_D10_M1_W4	0.00E+00	2.21E+08	0.00E+00	3.07E+08
E5_OMM-1_D10_M1_W5	0.00E+00	2.20E+08	0.00E+00	3.27E+08
E5_OMM-1_D10_M2_W1	0.00E+00	1.88E+08	0.00E+00	4.82E+08
E5_OMM-1_D10_M2_W2	0.00E+00	1.22E+08	0.00E+00	3.67E+08
E5_OMM-1_D10_M2_W3	0.00E+00	9.80E+07	0.00E+00	4.01E+08
E5_OMM-1_D10_M2_W4	0.00E+00	1.72E+08	0.00E+00	4.41E+08
E5_OMM-1_D10_M2_W5	0.00E+00	1.10E+08	0.00E+00	3.66E+08
E5_OMM-1_D10_M3_W1	0.00E+00	1.03E+08	0.00E+00	2.69E+08
E5_OMM-1_D10_M3_W2	0.00E+00	6.51E+07	0.00E+00	3.99E+08
E5_OMM-1_D10_M3_W3	0.00E+00	1.25E+08	0.00E+00	3.40E+08
E5_OMM-1_D10_M3_W4	0.00E+00	2.99E+08	0.00E+00	4.96E+08
E5_OMM-1_D10_M3_W5	0.00E+00	1.81E+08	0.00E+00	2.08E+08

E5_OMM_D10_M10_W1	1.19E+08	0.00E+00	0.00E+00	0.00E+00
E5_OMM_D10_M10_W2	1.18E+06	0.00E+00	0.00E+00	0.00E+00
E5_OMM_D10_M10_W3	5.72E+07	0.00E+00	0.00E+00	0.00E+00
E5_OMM_D10_M10_W4	7.54E+07	0.00E+00	1.51E+08	0.00E+00
E5_OMM_D10_M10_W5	1.49E+08	0.00E+00	5.67E+06	4.74E+08
E5_OMM_D10_M11_W1	2.79E+08	0.00E+00	3.46E+06	3.47E+08
E5_OMM_D10_M11_W2	1.44E+08	0.00E+00	5.54E+05	2.64E+08
E5_OMM_D10_M11_W3	3.52E+07	0.00E+00	0.00E+00	9.69E+07
E5_OMM_D10_M11_W4	1.39E+08	0.00E+00	1.51E+06	2.39E+08
E5_OMM_D10_M11_W5	0.00E+00	0.00E+00	0.00E+00	3.31E+08
E5_OMM_D10_M1_W1	6.04E+08	0.00E+00	2.43E+06	1.44E+07
E5_OMM_D10_M1_W2	2.28E+08	0.00E+00	1.20E+06	4.68E+07
E5_OMM_D10_M1_W3	4.11E+08	0.00E+00	4.60E+05	5.58E+07
E5_OMM_D10_M1_W4	4.00E+08	0.00E+00	3.03E+06	8.34E+07
E5_OMM_D10_M1_W5	3.81E+08	0.00E+00	3.92E+06	1.77E+08
E5_OMM_D10_M2_W1	1.41E+08	0.00E+00	2.86E+06	1.02E+06
E5_OMM_D10_M2_W2	2.18E+08	0.00E+00	3.43E+06	2.94E+07
E5_OMM_D10_M2_W3	3.36E+08	0.00E+00	3.42E+06	1.80E+07
E5_OMM_D10_M2_W4	3.13E+07	0.00E+00	2.56E+05	0.00E+00
E5_OMM_D10_M2_W5	1.44E+08	0.00E+00	2.56E+05	9.56E+07
E5_OMM_D10_M3_W1	3.99E+08	0.00E+00	2.45E+06	5.71E+06
E5_OMM_D10_M3_W2	5.19E+08	0.00E+00	3.47E+06	1.71E+07
E5_OMM_D10_M3_W3	5.32E+08	0.00E+00	3.42E+06	6.81E+07
E5_OMM_D10_M3_W4	6.12E+08	0.00E+00	3.59E+06	1.67E+08
E5_OMM_D10_M3_W5	7.93E+08	0.00E+00	4.29E+06	2.38E+08
E5_OMM_D10_M4_W1	1.59E+08	0.00E+00	4.38E+06	7.45E+06
E5_OMM_D10_M4_W2	2.35E+08	0.00E+00	1.71E+06	1.21E+06
E5_OMM_D10_M4_W3	2.60E+08	0.00E+00	3.19E+06	1.71E+06
E5_OMM_D10_M4_W4	2.21E+08	0.00E+00	4.01E+06	1.51E+08
E5_OMM_D10_M4_W5	2.36E+08	0.00E+00	2.62E+06	1.75E+08
E5_OMM_D10_M8_W1	6.02E+07	0.00E+00	1.50E+06	2.95E+08
E5_OMM_D10_M8_W2	1.21E+08	0.00E+00	2.25E+06	3.87E+08
E5_OMM_D10_M8_W3	2.43E+08	0.00E+00	1.95E+06	3.77E+08
E5_OMM_D10_M8_W4	1.55E+08	0.00E+00	2.29E+06	3.80E+08
E5_OMM_D10_M8_W5	1.04E+08	0.00E+00	1.43E+06	3.61E+08
E6_OMM_D10_M10_W1	1.44E+08	0.00E+00	0.00E+00	7.86E+05
E6_OMM_D10_M10_W2	3.00E+08	0.00E+00	0.00E+00	2.81E+05
E6_OMM_D10_M10_W3	1.24E+08	0.00E+00	0.00E+00	6.15E+04
E6_OMM_D10_M10_W4	1.53E+08	0.00E+00	0.00E+00	2.27E+07
E6_OMM_D10_M10_W5	3.45E+08	0.00E+00	0.00E+00	6.63E+05
E6_OMM_D10_M2_W1	1.92E+08	0.00E+00	3.92E+06	5.98E+08
E6_OMM_D10_M2_W2	2.54E+08	0.00E+00	3.94E+06	5.25E+08
E6_OMM_D10_M2_W3	4.56E+08	0.00E+00	4.36E+06	6.59E+08
E6_OMM_D10_M2_W4	1.37E+08	0.00E+00	3.42E+06	5.02E+08
E6_OMM_D10_M2_W5	2.72E+08	0.00E+00	2.56E+06	5.31E+08
E6_OMM_D10_M4_W1	1.34E+08	0.00E+00	3.94E+06	4.70E+08
E6_OMM_D10_M4_W2	3.21E+08	0.00E+00	3.88E+06	4.79E+08
E6_OMM_D10_M4_W3	3.33E+08	0.00E+00	4.74E+06	6.34E+08

E6_OMM_D10_M4_W4	3.83E+08	0.00E+00	4.34E+06	6.28E+08
E6_OMM_D10_M4_W5	2.51E+08	0.00E+00	1.02E+06	5.46E+08
E6_OMM_D10_M8_W1	2.73E+08	0.00E+00	3.09E+06	6.10E+08
E6_OMM_D10_M8_W2	2.27E+08	0.00E+00	2.69E+06	5.04E+08
E6_OMM_D10_M8_W3	3.65E+08	0.00E+00	4.55E+06	8.70E+08
E6_OMM_D10_M8_W4	2.40E+08	0.00E+00	2.82E+06	6.20E+08
E6_OMM_D10_M8_W5	1.85E+08	0.00E+00	2.16E+06	3.88E+08
E6_OMM_Inok_Inok_Inok	1.07E+07	2.09E+07	8.04E+06	2.35E+08
E6_OMM_D10_M11_W1	2.83E+08	0.00E+00	0.00E+00	4.87E+08
E6_OMM_D10_M11_W2	1.97E+08	0.00E+00	0.00E+00	3.42E+08
E6_OMM_D10_M11_W3	5.64E+07	0.00E+00	0.00E+00	1.68E+08
E6_OMM_D10_M11_W4	1.66E+08	0.00E+00	0.00E+00	2.88E+08
E6_OMM_D10_M11_W5	3.60E+08	0.00E+00	0.00E+00	1.78E+08
E6_OMM-1_Inok_Inok_Inok	0.00E+00	4.61E+07	8.41E+06	2.04E+08

YL31	YL32	YL44	YL45	I46	I48	I49
1.36E+09	4.62E+07	2.71E+06	1.34E+08	2.37E+08	6.56E+08	0.00E+00
1.35E+09	4.48E+07	2.53E+06	1.17E+08	1.27E+08	5.90E+08	0.00E+00
1.15E+09	4.38E+07	2.39E+06	1.90E+08	0.00E+00	5.05E+08	0.00E+00
1.55E+09	5.01E+07	2.56E+06	2.17E+08	1.07E+08	5.98E+08	0.00E+00
1.30E+09	3.92E+07	2.43E+06	2.22E+08	1.72E+08	5.55E+08	0.00E+00
3.93E+07	3.74E+06	6.05E+05	4.06E+06	2.80E+07	1.41E+07	3.28E+06
1.64E+08	1.58E+07	2.02E+06	1.98E+07	1.21E+08	6.16E+07	1.42E+07
6.42E+08	3.19E+07	8.44E+04	0.00E+00	2.22E+08	1.81E+09	0.00E+00
5.63E+08	1.72E+07	1.14E+05	1.01E+08	1.41E+08	9.69E+08	0.00E+00
6.67E+08	2.82E+07	1.25E+05	0.00E+00	1.77E+08	1.19E+09	0.00E+00
1.00E+09	3.13E+07	9.20E+05	1.54E+08	2.53E+08	1.14E+09	0.00E+00
3.78E+08	8.64E+06	1.22E+05	5.66E+07	1.30E+08	4.22E+08	0.00E+00
1.10E+09	2.40E+07	1.34E+07	1.96E+08	3.22E+08	4.39E+09	2.22E+05
6.51E+08	1.16E+07	7.85E+05	1.95E+08	3.86E+08	3.95E+09	3.31E+06
6.88E+08	2.55E+07	1.42E+06	5.41E+07	2.91E+08	1.83E+09	4.75E+06
3.65E+06	1.05E+05	3.71E+03	5.22E+05	1.11E+06	1.74E+07	2.31E+04
5.21E+08	1.93E+07	2.23E+05	9.36E+07	2.96E+08	3.66E+09	3.33E+06
3.08E+09	3.43E+07	8.62E+07	1.52E+08	4.57E+08	1.72E+09	0.00E+00
3.95E+09	3.55E+07	1.09E+08	1.44E+08	3.85E+08	2.13E+09	0.00E+00
3.30E+09	3.33E+07	1.12E+08	1.53E+08	3.36E+08	1.74E+09	0.00E+00
3.40E+09	3.35E+07	9.88E+07	2.06E+08	3.56E+08	2.06E+09	0.00E+00
3.09E+09	3.14E+07	8.78E+07	1.13E+08	1.83E+08	1.68E+09	0.00E+00
1.28E+09	4.34E+07	1.88E+08	1.75E+08	1.69E+08	1.02E+09	0.00E+00
7.60E+08	2.50E+07	8.65E+07	9.64E+07	1.15E+08	5.57E+08	0.00E+00
1.01E+09	3.39E+07	1.19E+08	1.22E+08	1.15E+08	6.90E+08	0.00E+00
8.30E+08	2.85E+07	1.16E+08	1.05E+08	8.37E+07	6.33E+08	0.00E+00
1.31E+09	5.17E+07	1.68E+08	1.59E+08	1.80E+08	9.96E+08	0.00E+00
3.75E+08	1.91E+07	9.74E+07	6.47E+07	1.54E+08	9.25E+08	0.00E+00
7.74E+08	3.64E+07	1.35E+08	1.04E+08	3.86E+08	1.36E+09	0.00E+00
1.53E+08	6.63E+06	3.50E+07	2.22E+07	5.58E+07	3.47E+08	0.00E+00
5.52E+08	2.26E+07	1.08E+08	6.99E+07	1.58E+08	1.16E+09	0.00E+00
7.10E+08	2.73E+07	1.24E+08	1.28E+08	1.47E+08	1.37E+09	0.00E+00
5.09E+08	2.03E+07	3.36E+05	1.02E+08	2.03E+08	1.12E+09	0.00E+00
5.67E+08	2.30E+07	7.19E+05	6.65E+07	4.71E+08	1.27E+09	0.00E+00
7.41E+08	2.42E+07	1.14E+06	1.67E+08	4.75E+08	1.46E+09	0.00E+00
7.31E+08	2.22E+07	1.11E+06	9.62E+07	6.99E+08	1.88E+09	0.00E+00
7.99E+08	2.65E+07	1.20E+06	1.87E+08	5.30E+08	1.63E+09	0.00E+00
1.31E+09	3.37E+07	1.28E+07	2.75E+08	2.06E+08	8.67E+08	0.00E+00
1.11E+09	2.03E+07	8.15E+06	2.02E+08	1.09E+08	6.65E+08	0.00E+00
1.12E+09	2.44E+07	8.28E+06	2.01E+08	5.47E+07	7.06E+08	0.00E+00
1.18E+09	2.40E+07	8.15E+06	2.08E+08	1.25E+08	7.85E+08	0.00E+00
1.25E+09	2.06E+07	7.97E+06	1.78E+08	7.12E+07	6.65E+08	0.00E+00
1.00E+09	1.59E+07	8.40E+06	1.75E+08	2.38E+08	1.58E+09	0.00E+00
9.91E+08	1.99E+07	9.39E+06	1.68E+08	1.97E+08	1.23E+09	0.00E+00
1.04E+09	1.68E+07	1.06E+07	1.77E+08	2.31E+08	1.47E+09	0.00E+00
9.65E+08	1.56E+07	1.04E+07	1.61E+08	3.72E+08	1.46E+09	0.00E+00
8.03E+08	1.20E+07	7.68E+06	9.91E+07	2.29E+08	1.82E+09	0.00E+00

7.33E+08	5.28E+07	2.65E+07	2.23E+08	2.88E+07	4.21E+09	0.00E+00
5.80E+08	3.55E+07	1.54E+07	1.28E+08	2.02E+07	3.32E+09	0.00E+00
5.39E+08	3.12E+07	4.71E+06	1.22E+08	1.49E+07	2.56E+09	0.00E+00
7.14E+08	4.09E+07	1.41E+06	1.95E+08	2.25E+07	4.85E+09	0.00E+00
2.06E+09	1.19E+08	2.13E+08	3.47E+08	2.12E+08	3.00E+09	0.00E+00
7.91E+09	8.09E+07	1.32E+08	3.26E+08	1.05E+08	2.33E+09	0.00E+00
5.33E+09	5.02E+07	8.86E+07	2.27E+08	8.09E+07	1.97E+09	0.00E+00
1.75E+09	1.85E+07	3.13E+07	8.21E+07	1.67E+07	7.08E+08	0.00E+00
4.97E+09	5.67E+07	9.32E+07	2.11E+08	6.14E+07	1.70E+09	0.00E+00
5.53E+09	6.27E+07	0.00E+00	2.59E+08	7.58E+07	2.28E+09	0.00E+00
8.45E+08	5.45E+07	1.96E+06	1.70E+08	1.10E+08	4.70E+08	0.00E+00
5.30E+08	3.78E+07	1.13E+06	1.05E+08	5.14E+07	3.38E+08	0.00E+00
9.26E+08	4.70E+07	1.60E+06	1.10E+08	5.83E+07	3.78E+08	0.00E+00
1.08E+09	5.31E+07	1.92E+06	1.63E+08	5.72E+07	5.00E+08	0.00E+00
1.16E+09	6.70E+07	2.30E+06	2.48E+08	6.07E+07	7.20E+08	0.00E+00
1.23E+09	7.23E+07	1.20E+07	2.16E+08	4.16E+07	8.81E+08	0.00E+00
1.97E+09	7.53E+07	1.33E+07	2.30E+08	7.49E+07	1.05E+09	0.00E+00
1.68E+09	6.89E+07	1.13E+07	2.00E+08	6.63E+07	8.41E+08	0.00E+00
1.96E+08	6.81E+06	1.33E+06	2.33E+07	1.07E+07	1.16E+08	0.00E+00
7.91E+08	3.10E+07	5.07E+06	9.89E+07	2.15E+07	4.60E+08	0.00E+00
8.96E+08	6.37E+07	6.32E+06	1.68E+08	9.16E+07	5.80E+08	0.00E+00
9.36E+08	7.27E+07	8.47E+06	1.86E+08	9.73E+07	7.25E+08	0.00E+00
1.04E+09	6.51E+07	7.67E+06	1.97E+08	1.15E+08	7.59E+08	0.00E+00
1.17E+09	8.84E+07	1.00E+07	2.44E+08	1.75E+08	8.66E+08	0.00E+00
1.08E+09	7.78E+07	9.73E+06	2.36E+08	1.29E+08	8.73E+08	0.00E+00
1.34E+09	7.60E+07	1.59E+08	2.33E+08	5.57E+07	9.31E+08	0.00E+00
1.33E+09	5.57E+07	1.35E+08	1.85E+08	5.51E+07	8.56E+08	0.00E+00
1.53E+09	5.91E+07	1.43E+08	1.89E+08	7.19E+07	8.35E+08	0.00E+00
1.44E+09	7.84E+07	1.14E+08	2.24E+08	5.32E+07	1.06E+09	0.00E+00
1.70E+09	8.62E+07	1.45E+08	2.20E+08	6.23E+07	1.02E+09	0.00E+00
6.58E+08	5.99E+07	8.61E+07	1.70E+08	8.63E+07	1.38E+09	0.00E+00
9.58E+08	7.28E+07	1.99E+08	2.19E+08	1.63E+08	1.98E+09	0.00E+00
9.11E+08	7.67E+07	1.65E+08	1.98E+08	1.51E+08	2.04E+09	0.00E+00
8.84E+08	8.72E+07	1.77E+08	2.14E+08	1.45E+08	2.03E+09	0.00E+00
7.55E+08	6.70E+07	1.40E+08	1.59E+08	7.78E+07	1.51E+09	0.00E+00
1.01E+09	5.60E+07	6.77E+07	2.51E+08	1.76E+08	9.64E+09	0.00E+00
1.16E+09	5.62E+07	1.11E+08	2.25E+08	2.44E+08	9.23E+09	0.00E+00
8.54E+08	4.39E+07	7.68E+07	1.99E+08	1.04E+08	7.83E+09	0.00E+00
9.89E+08	5.51E+07	1.36E+08	2.81E+08	1.86E+08	9.39E+09	0.00E+00
8.64E+08	5.33E+07	4.41E+07	2.36E+08	1.64E+08	9.03E+09	0.00E+00
1.87E+09	6.13E+07	1.79E+07	2.80E+08	9.97E+07	1.34E+09	0.00E+00
1.70E+09	5.91E+07	1.55E+07	2.58E+08	9.64E+07	1.24E+09	0.00E+00
2.16E+09	7.13E+07	1.66E+07	3.17E+08	1.29E+08	1.52E+09	0.00E+00
1.41E+09	5.47E+07	1.16E+07	2.49E+08	8.37E+07	1.17E+09	0.00E+00
1.65E+09	5.33E+07	1.19E+07	2.25E+08	7.20E+07	1.25E+09	0.00E+00
1.59E+09	5.26E+07	1.89E+08	2.18E+08	9.20E+07	1.09E+09	0.00E+00
1.51E+09	5.79E+07	2.09E+08	2.44E+08	1.01E+08	1.18E+09	0.00E+00
2.14E+09	7.07E+07	2.35E+08	2.94E+08	1.18E+08	1.46E+09	0.00E+00



1.91E+09	6.84E+07	2.31E+08	3.11E+08	1.10E+08	1.56E+09	0.00E+00
1.91E+09	4.83E+07	1.54E+08	2.46E+08	9.41E+07	1.45E+09	0.00E+00
1.27E+09	7.45E+07	2.18E+08	2.99E+08	2.33E+08	3.78E+09	0.00E+00
1.11E+09	5.61E+07	1.53E+08	2.28E+08	1.85E+08	2.99E+09	0.00E+00
1.74E+09	1.11E+08	2.11E+08	4.11E+08	2.40E+08	4.88E+09	0.00E+00
1.18E+09	6.95E+07	1.83E+08	2.82E+08	2.00E+08	3.33E+09	0.00E+00
7.50E+08	4.66E+07	1.10E+08	1.58E+08	1.02E+08	2.05E+09	0.00E+00
6.18E+07	9.64E+06	1.81E+08	1.70E+07	9.16E+07	3.72E+08	9.34E+06
7.44E+09	8.58E+07	1.57E+08	2.50E+08	1.85E+08	4.95E+09	0.00E+00
5.01E+09	6.83E+07	1.12E+08	1.82E+08	1.15E+08	3.38E+09	0.00E+00
2.12E+09	3.61E+07	6.30E+07	1.07E+08	4.82E+07	1.72E+09	0.00E+00
4.51E+09	6.34E+07	1.08E+08	1.90E+08	1.12E+08	3.75E+09	0.00E+00
2.29E+09	3.18E+07	6.35E+07	1.05E+08	6.95E+07	1.71E+09	0.00E+00
8.34E+07	1.13E+07	1.94E+08	1.77E+07	8.36E+07	3.35E+08	9.75E+06

YL58

3.73E+08  
3.61E+08  
3.31E+08  
2.92E+08  
2.72E+08  
1.12E+07  
5.80E+07  
1.78E+09  
1.01E+09  
1.56E+09  
1.31E+09  
6.02E+08  
2.31E+09  
3.02E+08  
6.61E+08  
2.63E+06  
3.54E+08  
4.17E+08  
7.44E+08  
6.57E+08  
6.79E+08  
6.91E+08  
2.22E+09  
8.12E+08  
1.26E+09  
1.06E+09  
1.78E+09  
6.63E+08  
4.40E+08  
1.38E+08  
3.91E+08  
6.37E+08  
6.28E+08  
8.97E+08  
8.80E+08  
1.29E+09  
7.88E+08  
1.88E+09  
1.69E+09  
1.94E+09  
2.29E+09  
1.76E+09  
6.97E+08  
9.91E+08  
7.36E+08  
9.86E+08  
6.52E+08

\*E: indicates biological replicate

\*\* OMM: full consortium, OMM-1: OMM-E.faecalis KB1 dropout co

\*\*\*D10: day 10

\*\*\*\*: M1-11 indicates growth medium

\*\*\*\*\*: W indicates technical replicate

\*\*\*\*\*: Inok indicates inoculum of biological replicate

values are copies/ml culture determined by qPCR and corrected fo

3.14E+08  
1.82E+08  
1.64E+08  
4.71E+08  
7.99E+08  
6.14E+08  
5.15E+08  
9.87E+07  
3.43E+08  
4.67E+08  
6.59E+07  
1.89E+08  
3.55E+08  
9.44E+07  
1.21E+09  
2.82E+06  
1.86E+08  
1.52E+08  
0.00E+00  
5.02E+08  
3.57E+07  
1.39E+08  
1.56E+08  
7.22E+08  
1.35E+09  
2.07E+08  
1.71E+07  
5.77E+07  
5.71E+08  
1.07E+09  
3.07E+08  
4.74E+08  
4.07E+08  
4.10E+08  
1.85E+08  
6.67E+08  
7.58E+08  
6.01E+08  
9.28E+08  
8.46E+08  
5.64E+08  
6.14E+08  
1.51E+09  
5.57E+08  
7.13E+08  
3.77E+08  
6.40E+08  
9.49E+08

9.41E+08  
5.62E+08  
7.51E+08  
6.55E+08  
1.08E+09  
6.00E+08  
5.67E+08  
2.12E+08  
1.79E+09  
1.02E+09  
4.17E+08  
9.06E+08  
4.66E+08  
2.28E+08

nsortium

or 16S rRNA copy number of specific strain

medium	I46	I48	I49	KB1	KB18	YL2
M1	0.00474846	0.00028877 -		0.00157607	0.00281064	0.00023756
M2	0.18476026	0.1061313 -		0.00026682	0.00016608	0.00147333
M4	0.04422563	0.01668914 -		2.43E-06	1.16E-05	0.00455108
M8	0.72105236	0.00195163 -		7.18E-05	1.18E-05	0.00803645
M10	0.10225283	0.01458523	0.06807481	0.00162737 -		0.07372912
M11	0.00318158	0.17729564 -		0.00151	0.15677756	0.0001942

\*shown are p values (t.test) of comparing absolute abundance of a strain in full OMM12 cons

YL27	YL31	YL32	YL44	YL45	YL58
0.87260518	0.00070164	1.29E-06	1.09E-06	0.01062235	0.00032582
0.2432646	0.18670566	0.00128084	0.18794446	0.92484071	1.93E-06
0.51319435	0.00231806	0.00127668	0.15308749	0.00043442	0.02043227
0.00077323	0.00732602	2.19E-05	0.01762084	0.00021344	0.48704447
0.31824941	0.14487013	0.00097968	0.01248023	0.04017303	0.73201743
0.89702852	0.08348507	0.01074377	0.39602005	0.1848582	0.87420525

ortium vs OMM11-KB1 dropout consortium

	YL31	YL32	YL27	YL58	I48	YL45
Ce_2223	1.04E+09	1.16E+09	1.32E+09	2.90E+10	3.57E+08	0.00E+00
Ce_2224	7.95E+08	0.00E+00	0.00E+00	1.10E+10	2.10E+08	0.00E+00
Ce_2225	1.04E+09	1.61E+09	3.68E+09	1.34E+10	2.86E+08	0.00E+00
Ce_M4	1.46E+09	2.25E+09	8.51E+09	1.38E+10	3.68E+08	0.00E+00
Ce_M5	2.79E+08	4.65E+08	1.39E+08	3.09E+09	7.82E+07	0.00E+00
Ce_M6	3.35E+08	5.47E+08	4.39E+08	2.94E+09	6.75E+07	0.00E+00
Co_2223	2.73E+09	5.44E+09	3.73E+10	4.23E+10	1.00E+09	0.00E+00
Co_2224	1.31E+09	5.11E+09	2.68E+10	3.49E+10	1.08E+09	0.00E+00
Co_2225	1.34E+09	3.45E+09	1.96E+10	2.60E+10	5.03E+08	0.00E+00
Co_M4	2.44E+09	5.56E+09	3.40E+10	3.40E+10	9.65E+08	0.00E+00
Co_M5	1.28E+09	5.29E+09	1.72E+10	3.16E+10	7.71E+08	0.00E+00
Co_M6	1.24E+09	3.85E+09	1.71E+09	2.28E+10	6.41E+08	0.00E+00
II_2223	1.27E+07	1.99E+08	8.02E+08	3.74E+08	4.47E+07	0.00E+00
II_2224	1.87E+07	2.33E+08	1.47E+09	7.43E+08	8.76E+07	0.00E+00
II_2225	6.83E+06	1.39E+08	1.14E+09	1.24E+08	5.30E+07	0.00E+00
II_M4	8.10E+05	1.87E+07	2.65E+08	1.56E+07	3.09E+06	0.00E+00
II_M5	1.27E+06	2.67E+07	9.04E+08	4.67E+06	5.00E+06	0.00E+00
II_M6	1.54E+06	6.07E+06	3.54E+07	7.52E+06	0.00E+00	0.00E+00
F_2223	2.30E+09	5.59E+09	2.84E+10	4.53E+10	1.00E+09	0.00E+00
F_2224	1.66E+09	8.11E+09	3.69E+10	5.04E+10	1.35E+09	0.00E+00
F_2225	8.77E+08	4.39E+09	2.34E+10	3.54E+10	7.85E+08	0.00E+00
F_M4	9.39E+08	3.23E+09	1.84E+10	1.75E+10	5.64E+08	0.00E+00
F_M5	1.13E+09	5.38E+09	2.19E+10	2.88E+10	9.03E+08	0.00E+00
F_M6	1.57E+09	4.04E+09	8.80E+09	2.39E+10	7.47E+08	0.00E+00

\* Ce: Cecum, Co: Colon, II: Ileum, F: Feces

\*\* values are copies/g gut content determined by qPCR and corrected for 16S rRNA copy number



KB18	YL44	KB1	YL2	I46	I49
1.15E+09	4.03E+06	0.00E+00	8.69E+07	1.24E+08	3.47E+10
1.57E+09	6.03E+06	0.00E+00	1.60E+08	1.15E+08	1.42E+10
1.95E+09	7.22E+06	0.00E+00	2.17E+08	2.62E+08	2.30E+10
2.26E+09	1.28E+07	0.00E+00	5.81E+08	8.68E+08	3.08E+10
3.27E+08	0.00E+00	0.00E+00	1.06E+07	2.17E+07	4.46E+09
4.87E+08	8.71E+05	0.00E+00	2.07E+07	6.02E+07	5.01E+09
1.01E+10	4.68E+07	0.00E+00	1.84E+09	1.74E+09	1.04E+11
1.10E+10	4.53E+07	0.00E+00	1.17E+09	1.46E+09	8.41E+10
5.30E+09	2.38E+07	0.00E+00	9.83E+08	4.45E+08	5.84E+10
7.85E+09	4.48E+07	0.00E+00	1.73E+09	2.83E+09	9.09E+10
6.09E+09	1.58E+07	0.00E+00	4.38E+08	1.32E+09	6.44E+10
6.96E+09	2.94E+06	0.00E+00	4.66E+07	5.49E+08	3.86E+10
1.28E+08	2.76E+06	0.00E+00	5.09E+07	2.88E+08	1.95E+09
5.17E+08	4.03E+06	0.00E+00	1.55E+08	4.87E+08	3.81E+09
2.50E+08	3.40E+06	0.00E+00	1.85E+08	1.95E+08	2.12E+09
1.92E+07	0.00E+00	0.00E+00	9.10E+06	9.30E+07	4.26E+08
1.92E+07	3.30E+06	0.00E+00	1.63E+07	1.06E+08	1.09E+09
7.26E+06	0.00E+00	0.00E+00	2.13E+06	2.45E+07	8.56E+07
9.24E+09	4.23E+07	0.00E+00	1.05E+09	1.46E+09	9.60E+10
1.53E+10	0.00E+00	0.00E+00	1.70E+09	2.16E+09	1.20E+11
7.19E+09	4.53E+07	0.00E+00	1.16E+09	7.11E+08	7.50E+10
2.54E+09	3.12E+07	0.00E+00	9.51E+08	1.91E+09	4.69E+10
9.68E+09	3.09E+07	0.00E+00	7.47E+08	1.99E+09	7.09E+10
6.63E+09	1.36E+07	0.00E+00	3.93E+08	1.01E+09	4.79E+10

number of specific strain

sample	KB1	YL2	KB18	YL27	YL31	YL32
Ce_2309	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E+04	1.69E+04
Ce_2310	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E+04
Ce_2311	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E+04
Ce_2312	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E+03	6.28E+03
Co_2310	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E+04
Co_2311	6.68E+05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E+03
Co_2312	1.18E+06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E+04
Co_2313	1.33E+05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E+03
Il_2309	2.43E+06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Il_2310	1.29E+06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Il_2311	3.23E+06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Il_2312	2.05E+06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Il_2313	6.76E+05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E+04
F_2311	1.89E+06	0.00E+00	0.00E+00	0.00E+00	3.15E+03	2.11E+03
F_2312	4.93E+05	0.00E+00	0.00E+00	1.81E+03	2.91E+03	1.61E+04
F_2313	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

\* Ce: Cecum, Co: Colon, Il: Ileum, F: Feces

\*\* values are copies/g gut section determined by qPCR and corrected for 16S rRNA copy number

YL44	YL45	I46	I48	I49	YL58
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E+03
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E+03
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E+03
0.00E+00	0.00E+00	5.76E+03	8.43E+03	9.49E+05	2.93E+05
0.00E+00	0.00E+00	0.00E+00	8.63E+03	1.43E+05	2.16E+04
0.00E+00	0.00E+00	0.00E+00	6.13E+03	8.10E+05	9.39E+03
0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E+06	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E+06	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E+06	1.32E+05
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E+04
0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E+06	1.56E+05
0.00E+00	0.00E+00	1.90E+03	5.25E+03	3.03E+06	2.18E+05
0.00E+00	0.00E+00	1.40E+03	8.82E+03	2.77E+04	1.33E+04
0.00E+00	0.00E+00	0.00E+00	5.18E+03	0.00E+00	8.47E+03

nber of specific strain