

Supplementary File 1

Bacterial isolation and identification of isolates

Grass and manure samples were analysed for the presence of *A. baumannii*. Each grass sample (100 g) was placed into a sterile 500 ml centrifuge bottle containing 250 ml of sterile phosphate buffered saline (PBS) (Gibco). The grass samples were then sonicated for 5 minutes to isolate the grass microbial biofilm. The manure (1 g) was added to nutrient broth and incubated at 37°C for 24 hours. The grass sonicates and manure enrichment samples then underwent tenfold serial dilutions in sterile PBS. For each sample, 100 µl was used to inoculate Leeds Acinetobacter Media agar supplemented with each respective antibiotic at breakpoint concentrations: imipenem (16 mg/L), cefotaxime (4 mg/L), colistin (4 mg/L) and ciprofloxacin (1 mg/L) for the isolation of *Acinetobacter* spp.¹³ Agar plates were incubated at 37°C for 24 - 48 hours. Bacterial colony material of pure cultures was transferred by direct smearing in duplicate onto spots of the MALDI-TOF mass spectrometry (MS) target (MTP ground steel, Bruker Daltonics) with toothpicks. To the dried spots, 1 µL matrix solution (10 mg α-cyano-4-hydroxycinnamic acid, Bruker Daltonics) dissolved in 1 mL acetonitrile-water-trifluoroacetic acid (50:47.5:2.5 (vol/vol/vol), Sigma-Aldrich) was added, and this solution was air-dried. Sample spectra were acquired using a microflex LT MALDI-TOF mass spectrometer (Bruker Daltonics) and the flexControl software (ver. 3.4; Bruker Daltonics). Spectra were classified using the Bruker Taxonomy main spectra database (MBT Compass ver. 4.1. with 8468 spectra present, Bruker Daltonics). Bacterial identification was reported to the species level if the score value was above 2.00 or to the genus level if the score was between 1.70 and 1.99. Any isolates that were not successfully identified using MALDI-TOF MS were identified using 16S rRNA colony PCR and sequencing. To prepare bacterial isolates for PCR, a single colony was suspended in 50 µl double-filtered Milli-Q water in a sterile 0.25 ml PCR tube. The colony suspension was then boiled in a Thermocycler (Eppendorf Mastercycler gradient) at 95°C for 10 minutes. A 1465 bp fragment of the 16S rRNA gene was amplified by PCR by targeting nucleotides 27 to 1492 of the 16S rRNA gene. The fragment was amplified using the primer set 27F (5'-AGAGTTTGATCCTGGCTCAG-3') and 1492R (5'-TACGGYTACCTTGTTACGACTT-3'). Sequences with ≥ 97% identity were accepted at genus level and samples with ≥ 99% identity were accepted at the species level.

Supplementary Table 1: Table displaying sampling time points completed during the field trial.

<u>Timepoint</u>	<u>Timepoint Description</u>	<u>Date Sampled</u>
Background (BM)	Samples taken the day of manure spreading before any manure applied to the field.	25/06/19
T0	Immediately after manure spreading	25/06/19
T1	1 week following manure spreading	02/07/19
T2	2 weeks following manure spreading	10/07/19
T3	3 weeks following manure spreading	16/07/19
T4	4 weeks following manure spreading	22/07/19
T5	5 weeks following manure spreading	29/07/19
T6	6 weeks following manure spreading	06/08/19
T7	10 weeks following manure spreading	02/09/19
T8	14 weeks following manure spreading	02/10/19
T9	18 weeks following manure spreading	30/10/19

Supplementary Table 2

List of all the isolates employed in this study. The isolation date and source are listed. Also, genome assembly statistics and ST assignment are provided for each isolate; blue denotes new STs

Strain	Biosample	Isolation date	Isolation source	N_contigs	N50	L50	%GC	Size	N_genes	Completeness	Contaminant	ANI vs ref	Oxford ST	Pasteur ST
GS T1 EMB CEF 4	SAMN31927120	7/2/19	Grass with Pig Manure	18	728794	2	38.63	3849335	3694	100	0	97.97961	2889	2327
GP T1 LAM CEF 4	SAMN31927121	7/2/19	Grass with Chicken Manure	17	909758	2	38.97	3907143	3646	100	0.41	97.94763	2887	462
GC T1 LAM CEF 6	SAMN31927122	7/2/19	Control Grass (No Manure)	19	909758	2	38.97	3907592	3645	100	0.41	97.94717	2887	462
GP T3 SC CEF 1	SAMN31927123	7/16/19	Grass with Chicken Manure	19	909758	2	38.97	3907592	3645	100	0.41	97.94168	2887	462
GC T1 SC CEF 1	SAMN31927124	7/2/19	Control Grass (No Manure)	22	448651	4	38.6	3970964	3788	100	0	97.94913	2892	2317
G2 BM SC CEF 6	SAMN31927125	6/25/19	Background Grass (no manure on field)	17	909758	2	38.97	3907143	3645	100	0.41	97.94538	2887	462
GP T1 EMB CEF 1	SAMN31927126	7/2/19	Grass with Chicken Manure	17	2156011	1	38.63	3849381	3693	100	0	97.98184	2889	2327
GP T1 EMB CEF 6	SAMN31927127	7/2/19	Grass with Chicken Manure	19	373660	3	38.63	3849021	3694	100	0	97.97971	2889	2327
GC T1 LAM CEF 4	SAMN31927128	7/2/19	Control Grass (No Manure)	16	2156011	1	38.63	3848722	3693	100	0	97.98181	2889	2327
G2 BM LAM CEF 5	SAMN31927129	6/25/19	Background Grass (no manure on field)	29	386749	4	39.02	3821903	3633	100	0	97.91593	2893	2118
G2 BM SC CEF 3	SAMN31927130	6/25/19	Background Grass (no manure on field)	19	909593	2	38.97	3907427	3647	100	0.41	97.9416	2887	462
GP T1 EMB CEF 4	SAMN31927131	7/2/19	Grass with Chicken Manure	17	2156011	1	38.63	3849494	3694	100	0	97.9808	2889	2327
G2 BM LAM CEF 4	SAMN31927132	6/25/19	Background Grass (no manure on field)	22	530972	2	38.78	4040395	3815	100	0	97.92196	2890/2891	44
G2 BM SC CEF 5	SAMN31927133	6/25/19	Background Grass (no manure on field)	17	909758	2	38.97	3907143	3647	100	0.41	97.94201	2887	462
GP T1 SC CEF 4	SAMN31927134	7/2/19	Grass with Chicken Manure	54	250849	6	38.81	4114740	4001	100	0.41	97.91929	2888	1027
G2 BM LAM CEF 2	SAMN31927135	6/25/19	Background Grass (no manure on field)	16	2156011	1	38.63	3849430	3693	100	0	97.98134	2889	2327
GP T1 LAM CEF 2	SAMN31927136	7/2/19	Grass with Chicken Manure	52	250766	6	38.8	4114536	4000	100	0.41	97.92329	2888	1027
GP T1 LAM CEF 5	SAMN31927137	7/2/19	Grass with Chicken Manure	19	909776	2	38.97	3907610	3646	100	0.41	97.94506	2887	462
GP T1 LAM CEF 3	SAMN31927138	7/2/19	Grass with Chicken Manure	53	250849	6	38.81	4114756	4001	100	0.41	97.92289	2888	1027
GC T1 LAM CEF 2	SAMN31927139	7/2/19	Control Grass (No Manure)	19	909758	2	38.97	3907592	3646	100	0.41	97.94156	2887	462
GS T1 EMB CEF 6	SAMN31927140	7/2/19	Grass with Pig Manure	21	530972	2	38.78	4040268	3815	100	0	97.93439	2890/2891	44
GP T1 LAM CEF 1	SAMN31927141	7/2/19	Grass with Chicken Manure	19	909758	2	38.97	3907592	3645	100	0.41	97.9471	2887	462
GS T1 EMB CEF 2	SAMN31927142	7/2/19	Grass with Pig Manure	22	530972	2	38.78	4040795	3816	100	0	97.92168	2890/2891	44
GP T1 SC CEF 3	SAMN31927143	7/2/19	Grass with Chicken Manure	53	250849	6	38.81	4115092	4002	100	0.41	97.92346	2888	1027
GC T1 EMB CEF 3	SAMN31927144	7/2/19	Control Grass (No Manure)	19	909758	2	38.97	3907592	3648	100	0.41	97.94714	2887	462
GC T1 EMB CEF 2	SAMN31927145	7/2/19	Control Grass (No Manure)	17	1947779	1	38.63	3848629	3693	100	0	97.98187	2889	2327
GB T3 LAM CEF 2	SAMN31927146	7/16/19	Grass with Cow Manure	23	530744	2	38.78	4041317	3815	100	0	97.934	2890/2891	44
GB T3 LAM CEF 6	SAMN31927147	7/16/19	Grass with Cow Manure	23	530729	2	38.78	4040922	3815	100	0	97.9341	2890/2891	44
GB T3 EMB CEF 1	SAMN31927148	7/16/19	Grass with Cow Manure	28	386749	4	39.02	3822855	3632	100	0	97.91587	2893	2118
GB T3 LAM CEF 5	SAMN31927149	7/16/19	Grass with Cow Manure	22	530744	2	38.78	4040795	3815	100	0	97.9341	2890/2891	44
GP T3 EMB COL 1	SAMN31927150	7/16/19	Grass with Chicken Manure	43	257008	5	38.98	3851368	3638	100	0	97.86246	1208	584
GB T3 LAM CEF 1	SAMN31927151	7/16/19	Grass with Cow Manure	22	530972	2	38.78	4041303	3816	100	0	97.93335	2890/2891	44
GP T3 LAM CEF 4	SAMN31927152	7/16/19	Grass with Chicken Manure	15	2156011	1	38.63	3849647	3693	100	0	97.97917	2889	2327
GB T3 EMB CEF 2	SAMN31927153	7/16/19	Grass with Cow Manure	26	386749	4	39.02	3821965	3631	100	0	97.91772	2893	2118
GB T3 LAM CIPRO 4	SAMN31927154	7/16/19	Grass with Cow Manure	42	257008	5	38.97	3850304	3638	100	0	97.86288	1208	584
GB T3 LAM COL 1	SAMN31927155	7/16/19	Grass with Cow Manure	20	530729	2	38.78	4040370	3815	100	0	97.93418	2890/2891	44
GP T3 LAM CEF 3	SAMN31927156	7/16/19	Grass with Chicken Manure	27	386749	4	39.02	3822623	3632	100	0	97.91484	2893	2118
GC T1 EMB CEF 1	SAMN31927157	7/2/19	Control Grass (No Manure)	24	530729	2	38.78	4041444	3815	100	0	97.92168	2890/2891	44
GB T1 SC CEF 1	SAMN31927158	7/2/19	Grass with Cow Manure	24	464653	3	38.99	3787902	3574	100	0.14	97.96892	1775	1190
GC T1 SC CEF 4	SAMN31927159	7/2/19	Control Grass (No Manure)	51	250849	6	38.8	4114754	4001	100	0.41	97.92349	2888	1027
GP T1 EMB CEF 3	SAMN31927160	7/2/19	Grass with Chicken Manure	15	2156011	1	38.63	3848803	3693	100	0	97.98179	2889	2327
GP T3 LAM CEF 1	SAMN31927161	7/16/19	Grass with Chicken Manure	26	386749	4	39.02	3822117	3631	100	0	97.91491	2893	2118
GP T3 LAM CEF 2	SAMN31927162	7/16/19	Grass with Chicken Manure	18	728794	2	38.63	3848963	3695	100	0	97.9808	2889	2327
GP T1 EMB CEF 5	SAMN31927163	7/2/19	Grass with Chicken Manure	19	373660	3	38.63	3849021	3694	100	0	97.98182	2889	2327
GC T1 LAM CEF 1	SAMN31927164	7/2/19	Control Grass (No Manure)	22	448651	4	38.6	3971541	3789	100	0	97.94913	2892	2317
GS T1 EMB CEF 5	SAMN31927165	7/2/19	Grass with Pig Manure	28	386749	4	39.02	3822818	3633	100	0	97.91604	2893	2118
GC T1 SC CEF 3	SAMN31927166	7/2/19	Control Grass (No Manure)	52	250766	6	38.8	4113841	4000	100	0.41	97.92308	2888	1027
GC T1 SC CEF 2	SAMN31927167	7/2/19	Control Grass (No Manure)	20	448651	3	38.6	3972463	3788	100	0	97.94882	2892	2317
G2 BM LAM CEF 1	SAMN31927168	6/25/19	Background Grass (no manure on field)	19	530972	2	38.78	4041804	3816	100	0	97.92164	2890/2891	44
GC T1 LAM CEF 3	SAMN31927169	7/2/19	Control Grass (No Manure)	20	530972	2	38.78	4042033	3816	100	0	97.93435	2890/2891	44
GC T1 LAM CEF 5	SAMN31927170	7/2/19	Control Grass (No Manure)	18	909593	2	38.97	3907226	3647	100	0.41	97.94451	2887	462
GP T1 EMB CEF 2	SAMN31927171	7/2/19	Grass with Chicken Manure	17	2156011	1	38.63	3849293	3694	100	0	97.98181	2889	2327
GS T1 EMB CEF 1	SAMN31927172	7/2/19	Grass with Pig Manure	28	386749	4	39.02	3822818	3632	100	0	97.91488	2893	2118
G2 EMB CEF 7	SAMN31927173	6/25/19	Background Grass (no manure on field)	27	386749	4	39.02	3822364	3633	100	0	97.91486	2893	2118
G2 EMB CEF 6	SAMN31927174	6/25/19	Background Grass (no manure on field)	15	2156011	1	38.63	3849511	3693	100	0	97.97922	2889	2327
GP T3 LAM COL 3	SAMN31927175	7/16/19	Grass with Chicken Manure	19	530972	2	38.77	4039195	3815	100	0	97.92182	2890/2891	44
GC T1 EMB CEF 4	SAMN31927176	7/2/19	Control Grass (No Manure)	17	2156011	1	38.63	3849381	3693	100	0	97.98181	2889	2327
G2 BM LAM CEF 3	SAMN31927177	6/25/19	Background Grass (no manure on field)	21	530744	2	38.78	4040268	3814	100	0	97.93439	2890/2891	44
GC T3 SC CEF 1	SAMN31927178	7/16/19	Control Grass (No Manure)	23	530729	2	38.78	4041054	3815	100	0	97.92164	2890/2891	44
GP T3 LAM COL 2	SAMN31927179	7/16/19	Grass with Chicken Manure	22	530744	2	38.78	4040464	3814	100	0	97.92168	2890/2891	44
GP T1 LAM CEF 6	SAMN31927180	7/2/19	Grass with Chicken Manure	52	250766	6	38.81	4115435	4002	100	0.41	97.91923	2888	1027

Supplementary Table 3

Extra genomes were used for the analysis. For all the genomes the BioSample numbers are provided. Regarding the human isolates, their ICs are provided. Animal isolates are highlighted in yellow

Biosample	Iso_source	Category	Host	Strain	Isolation date	Geographic location	Isolation source	IC	Pasteur	Oxford	Completeness	Contaminatio
SAMN07303764	human-related	human-related	Homo sapiens	IHSS3526	2016	Honduras	endobronchial tube	1	1	1590	100	0
SAMN03078680	human-related	human-related	Homo sapiens	AB4991	2008	USA	warwound	1	1	207	100	0
SAMEA1466008	human-related	human-related	Homo sapiens	A388	2002	Greece	missing	1	1	439	100	0
SAMEA1317920	human-related	human-related	Homo sapiens	D81	2010	Australia	wound	1	1	441	100	0
SAMN02628532	human-related	human-related	Homo sapiens	R1B	2011	Saudi Arabia	missing	1	1	441	99.91	0
SAMEA1317927	human-related	human-related	Homo sapiens	RBH3	2002	Australia	endotracheal aspirate	1	1	781	100	0
SAMEA1465988	human-related	human-related	Homo sapiens	6772166	2002	Australia	pus	1	1	781	100	0
SAMN03078672	human-related	human-related	Homo sapiens	AB4448	2007	USA	warwound	1	1	945	100	0.14
SAMN03078683	human-related	human-related	Homo sapiens	AB5674	2009	USA	blood	1	1	945	100	0
SAMEA1317930	human-related	human-related	Homo sapiens	D3208	1997	Australia	blood	1	1	231	100	0
SAMEA1709749	human-related	human-related	Homo sapiens	A297	1984	Netherlands	missing	1	1	231	99.73	0.14
SAMN01828143	human-related	human-related	Homo sapiens	NIPH 290	1994	Czech Republic	urine	1	1	231	100	0
SAMN03078682	human-related	human-related	Homo sapiens	AB5197	2008	USA	severe trauma site	1	1	231	100	0.14
SAMN04407353	human-related	human-related	Homo sapiens	MEX11594	2011	Mexico	pleural fluid	1	1	231	100	0
SAMN05292963	human-related	human-related	Homo sapiens	IHIT25424	2011	Germany	missing	1	1	231	100	1.01
SAMN07257378	human-related	human-related	Homo sapiens	13	2012	Brazil	tracheal aspirate	1	1	231	100	0
SAMN07534975	human-related	human-related	Homo sapiens	237	2016	Togo	cerebrospinal fluid	1	1	231	99.22	1.64
SAMN03078661	human-related	human-related	Homo sapiens	AB3340	2006	USA	blood	1	20	449	100	0
SAMN05590239	human-related	human-related	Homo sapiens	071	2010	Spain	blood	1	81	1868	100	0
SAMN03078666	human-related	human-related	Homo sapiens	AB3927	2007	USA	severe trauma site	1	717	441	100	0
SAMN08093362	human-related	human-related	Homo sapiens	ZQ3	2016	Iraq	blood	1	717	498	100	0.62
SAMN08043814	human-related	human-related	Homo sapiens	ZQ1	2016	Iraq	wound swab	2	2	1052	99.19	0.63
SAMN08619566	human-related	human-related	Homo sapiens	AB1	2012	China	blood	2	2	136	99.59	0.63
SAMN10618172	human-related	human-related	Homo sapiens	O1-3	2018	China	sputum	2	2	136	99.98	0.7
SAMN05292964	human-related	human-related	Homo sapiens	IHIT29106	2014	Germany	missing	2	2	1421	99.98	1.2
SAMEA104305272	human-related	human-related	Homo sapiens	4300STDY7045777	2016	Thailand	missing	2	2	1423	99.85	0.63
SAMN03068194	human-related	human-related	Homo sapiens	2004BJAB10	2004	China	sputum	2	2	1513	99.98	0.62
SAMN08619592	human-related	human-related	Homo sapiens	AB27	2014	China	blood	2	2	1633	99.98	0.63
SAMEA104305260	human-related	human-related	Homo sapiens	4300STDY7045764	2016	Thailand	missing	2	2	1634	99.98	0.78
SAMN10716699	human-related	human-related	Homo sapiens	RCS4	2017	France	throat sample	2	2	1634	99.98	0.63
SAMEA104305201	human-related	human-related	Homo sapiens	4300STDY7045705	2016	Thailand	missing	2	2	1684	99.98	0.63
SAMEA104305197	human-related	human-related	Homo sapiens	4300STDY7045701	2016	Thailand	missing	2	2	1890	99.98	0.63
SAMEA104305199	human-related	human-related	Homo sapiens	4300STDY7045703	2016	Thailand	missing	2	2	1933	99.98	0.63
SAMN04054373	human-related	human-related	Homo sapiens	A186	missing	South Africa	missing	2	2	204	99.59	0.61
SAMN10101945	human-related	human-related	Homo sapiens	14A771	2014	France	respiratory sample	2	2	348	99.59	0.63
SAMN10101946	human-related	human-related	Homo sapiens	15A831	2015	France	respiratory sample	2	2	348	99.59	0.63
SAMEA104305264	human-related	human-related	Homo sapiens	4300STDY7045768	2016	Thailand	missing	2	2	349	99.98	0.77
SAMN01828145	human-related	human-related	Homo sapiens	NIPH 528	1982	Netherlands	urine	2	2	350	99.98	0.61
SAMN03068195	human-related	human-related	Homo sapiens	1999BJAB11	1999	China	sputum	2	2	350	99.92	0.81
SAMN04054216	human-related	human-related	Homo sapiens	Ab Crete	2011	United Kingdom	sputum	2	2	350	99.98	0.61
SAMN06106563	human-related	human-related	Homo sapiens	Ab158 GEIH-2000	2000	Spain	missing	2	2	350	98.63	0.56
SAMN08554707	human-related	human-related	Homo sapiens	6009-2	2010	Portugal	clinical specimen	2	2	350	99.44	0.64
SAMN09095539	human-related	human-related	Homo sapiens	ABAY10007	2010	South Korea	blood	2	2	357	99.56	0.61
SAMN09095540	human-related	human-related	Homo sapiens	ABAY11001	2011	South Korea	blood	2	2	357	99.56	0.71
SAMN03068191	human-related	human-related	Homo sapiens	2011BJAB7	2011	China	sputum	2	2	369	99.98	0.96
SAMN09095583	human-related	human-related	Homo sapiens	ABAY13010	2013	South Korea	blood	2	2	369	99.59	0.61
SAMEA104305187	human-related	human-related	Homo sapiens	4300STDY7045691	2016	Thailand	missing	2	2	436	99.98	0.65
SAMN13066395	human-related	human-related	Homo sapiens	KT 2015 40	2015	Greece	bronchial	2	2	436	99.98	0.65
SAMN03078670	human-related	human-related	Homo sapiens	AB4052	2007	USA	warwound	2	2	452	99.59	1.57

SAMN03078678	human-related	human-related	Homo sapiens	AB4932	2008	USA	sputum	2	2	452	99.59	0.61
SAMN03765515	human-related	human-related	Homo sapiens	MDRAB16	2010	Taiwan	blood	2	2	455	99.32	0.7
SAMN03765513	human-related	human-related	Homo sapiens	KSPU17	2013	Taiwan	sputum	2	2	455	99.59	1.03
SAMEA104305357	human-related	human-related	Homo sapiens	4300STDY7045862	2016	Thailand	missing	2	2	493	99.98	0.63
SAMN04745538	human-related	human-related	Homo sapiens	XH819	2014	China	sputum	2	2	540	99.59	1.57
SAMN08619575	human-related	human-related	Homo sapiens	AB10	2013	China	blood	2	2	540	99.98	0.61
SAMN03765517	human-related	human-related	Homo sapiens	MDRAB41	2009	Taiwan	blood	2	2	544	99.98	0.23
SAMN03765519	human-related	human-related	Homo sapiens	MDRAB58	2009	Taiwan	blood	2	2	545	99.98	0.63
SAMN04745395	human-related	human-related	Homo sapiens	XH515	2014	China	sputum	2	2	547	99.59	0.63
SAMN04745426	human-related	human-related	Homo sapiens	XH665	2015	China	sputum	2	2	547	99.98	0.63
SAMN08619569	human-related	human-related	Homo sapiens	AB4	2015	China	blood	2	2	548	99.98	0.63
SAMN01087912	human-related	human-related	Homo sapiens	NIPH 24	1991	Czech Republic	urine	2	2	556	99.98	0.61
SAMN07268441	human-related	human-related	Homo sapiens	Ab 12	2013	Ivory Coast	urine	2	2	556	98.24	1.13
SAMN03068266	human-related	human-related	Homo sapiens	2011ZJAB1	2011	China	sputum	2	2	643	99.98	0.61
SAMN05730164	human-related	human-related	Homo sapiens	ZJ06-200P5-1	2012	China	missing	2	2	643	99.59	0.67
SAMN03068267	human-related	human-related	Homo sapiens	2011ZJAB2	2011	China	abdominal fluid	2	2	651	99.59	0.61
SAMN03078667	human-related	human-related	Homo sapiens	AB4025	2007	USA	wound	2	2	848	99.98	0.61
SAMN09095588	human-related	human-related	Homo sapiens	ABAY13015	2013	South Korea	blood	2	2	858	99.78	0.61
SAMEA104305363	human-related	human-related	Homo sapiens	4300STDY7045869	2016	Thailand	missing	2	2	938	99.98	0.66
SAMN04745388	human-related	human-related	Homo sapiens	XH508	2014	China	sputum	2	2	191	99.59	0.64
SAMN09095522	human-related	human-related	Homo sapiens	ABAY09003	2009	South Korea	blood	2	2	191	99.98	0.61
SAMN03068186	human-related	human-related	Homo sapiens	2011BJAB3	2011	China	sputum	2	2	218	99.88	1
SAMN03699770	human-related	human-related	Homo sapiens	M3AC14-8	2014	Puerto Rico	skin	2	2	218	99.98	1.27
SAMN03765511	human-related	human-related	Homo sapiens	KMDRAB15	2012	Taiwan	blood	2	2	218	99.59	0.83
SAMN04005089	human-related	human-related	Homo sapiens	AbMDR-GLH5	2011	Spain	tracheobronchial aspirate	2	2	218	100	0
SAMN10716697	human-related	human-related	Homo sapiens	RCS2	2015	France	urine	2	2	218	99.59	0.63
SAMN03068183	human-related	human-related	Homo sapiens	2011BJAB1	2011	China	abdominal fluid	2	2	368	99.98	0.63
SAMN09095521	human-related	human-related	Homo sapiens	ABAY09002	2009	South Korea	blood	2	2	368	99.19	0.67
SAMN03068244	human-related	human-related	Homo sapiens	2011GDAB4	2011	China	blood	2	2	381	99.98	0.61
SAMN06460861	human-related	human-related	Homo sapiens	s228	2012	China	sputum	2	2	381	98.92	0.94
SAMN13066377	human-related	human-related	Homo sapiens	AK 2015 20	2015	Greece	rectal	2	2	425	99.98	0.63
SAMN13066390	human-related	human-related	Homo sapiens	TR 2016 34	2016	Greece	blood	2	2	425	99.88	0.63
SAMN03068199	human-related	human-related	Homo sapiens	2011GDAB1	2011	China	sputum	2	2	457	99.98	0.63
SAMN09667773	human-related	human-related	Homo sapiens	AB4	2011	Hong Kong	missing	2	2	457	99.98	1.04
SAMN04376870	human-related	human-related	Homo sapiens	2015ZJAB3	2014	China	sputum	2	2	784	99.98	0.61
SAMN04745474	human-related	human-related	Homo sapiens	XH722	2013	China	sputum	2	2	784	97.23	0.61
SAMEA1466079	human-related	human-related	Homo sapiens	WM99c	1999	Australia	missing	2	2	208	99.75	0.61
SAMN01828175	human-related	human-related	Homo sapiens	NIPH 2061	2003	Czech Republic	I.V. Cannula	2	2	208	99.98	0.61
SAMN02581277	human-related	human-related	Homo sapiens	BIDMC 56	2013	USA	urine	2	2	208	99.59	0.61
SAMN02911269	human-related	human-related	Homo sapiens	BJ7	2012	China	sputum	2	2	208	99.98	0.63
SAMN03765510	human-related	human-related	Homo sapiens	ISAB51	2010	Taiwan	blood	2	2	208	99.98	0.63
SAMEA103955436	human-related	human-related	Homo sapiens	AC13 M	2015	Morocco	anal margin	2	2	195	99.59	0.7
SAMN04745390	human-related	human-related	Homo sapiens	XH510	2014	China	sputum	2	2	195	99.59	0.63
SAMN04992847	human-related	human-related	Homo sapiens	AB067	2013	India	missing	2	2	195	99.59	0.66
SAMN09223254	human-related	human-related	Homo sapiens	GML-KP7-Col R AB	2017	Turkey	endotracheal aspirate	2	2	195	99.98	0.63
SAMN13066413	human-related	human-related	Homo sapiens	GE 2017 62	2017	Greece	missing	2	2	195	99.98	0.63
SAMN01828180	human-related	human-related	Homo sapiens	NIPH 1362	2000	Czech Republic	tracheal aspirate	2	47	437	99.98	0.72
SAMN04005085	human-related	human-related	Homo sapiens	AbMDR-GLH1	2011	Spain	tracheobronchial aspirate	2	187	208	99.92	0.61
SAMN04005086	human-related	human-related	Homo sapiens	AbMDR-GLH2	2011	Spain	tracheobronchial aspirate	2	745	208	99.98	1.44
SAMEA104305238	human-related	human-related	Homo sapiens	4300STDY7045742	2016	Thailand	missing	2	823	457	99.98	0.63
SAMN04745484	human-related	human-related	Homo sapiens	XH733	2013	China	sputum	2	880	208	99.98	0.62
SAMN04745446	human-related	human-related	Homo sapiens	XH685	2014	China	sputum	2	2	451	99.98	0.61

SAMN07977796	human-related	human-related	Homo sapiens	S18	2011	USA	BAL	2	2	451	99.98	0.63
SAMN09095587	human-related	human-related	Homo sapiens	ABAY13014	2013	South Korea	blood	2	2	451	99.98	0.63
SAMN10716696	human-related	human-related	Homo sapiens	RCS1	2014	France	distal bronchial sample	2	2	451	99.98	0.65
SAMN13066417	human-related	human-related	Homo sapiens	SI 2017_69	2017	Greece	broncheal fluid	2	2	451	99.94	0.63
SAMN03078662	human-related	human-related	Homo sapiens	AB3560	2006	USA	blood	3	3	928	100	0
SAMN03078673	human-related	human-related	Homo sapiens	AB4456	2007	USA	trach aspirate	3	3	928	100	0
SAMN01828181	human-related	human-related	Homo sapiens	NIPH 1669	1997	Netherlands	blood	3	3	106	100	0
SAMN09951355	human-related	human-related	Homo sapiens	MC75	2016	Bolivia	ulcer	4	15	236	99.91	0
SAMN01828174	human-related	human-related	Homo sapiens	NIPH 1734	2001	Czech Republic	sputum	4	15	950	100	0
SAMN05005381	human-related	human-related	Homo sapiens	CU032113	2013	USA	wound	5	79	124	100	2.32
SAMN09951323	human-related	human-related	Homo sapiens	MC17	2016	Bolivia	blood	5	79	233	99.95	0.87
SAMN09951336	human-related	human-related	Homo sapiens	MC38	2016	Bolivia	urine	5	79	233	100	0.87
SAMN07303770	human-related	human-related	Homo sapiens	MCR6056	2015	Honduras	blood	5	156	758	100	0.82
SAMN10910651	human-related	human-related	Homo sapiens	A158	2012	Mexico	bronchoalveolar lavage	5	156	758	96.35	2.33
SAMN11359847	human-related	human-related	Homo sapiens	Ab5038	missing	Mexico	missing	5	156	758	99.73	0.82
SAMN10341989	human-related	human-related	Homo sapiens	AB4332	2016	Brazil	respiratory tract	6	78	944	100	0
SAMN12509149	human-related	human-related	Homo sapiens	830	2018	Georgia	missing	6	78	1104	100	0.34
SAMN12509151	human-related	human-related	Homo sapiens	3365	2018	Georgia	missing	6	78	944	100	0.34
SAMN09951331	human-related	human-related	Homo sapiens	MC31	2016	Bolivia	catheter	7	25	1489	100	0
SAMN09951332	human-related	human-related	Homo sapiens	MC32	2016	Bolivia	ulcer	7	25	1489	100	0
SAMN09951348	human-related	human-related	Homo sapiens	MC63	2016	Bolivia	fluid (bone tissue)	7	25	1519	99.86	0
SAMN09951349	human-related	human-related	Homo sapiens	MC64	2016	Bolivia	urine	7	25	1519	99.59	0
SAMN09951351	human-related	human-related	Homo sapiens	MC71	2016	Bolivia	exudate (leg)	7	25	1528	99.73	0
SAMN09951357	human-related	human-related	Homo sapiens	MC77	2016	Bolivia	tracheal secretion	7	25	1528	100	0
SAMN09951337	human-related	human-related	Homo sapiens	MC39	2016	Bolivia	urine	7	25	1529	99.32	0
SAMN09951342	human-related	human-related	Homo sapiens	MC51	2016	Bolivia	lumbosacral ulcer	7	25	1529	100	0
SAMN07303765	human-related	human-related	Homo sapiens	HEU3	2016	Honduras	cornea secretion	7	25	1588	99.91	0
SAMN12771933	human-related	human-related	Homo sapiens	AMA42	2017	missing	missing	7	25	690	100	0.41
SAMN03078660	human-related	human-related	Homo sapiens	AB2828	2006	USA	blood	7	25	993	100	0.55
SAMN03078663	human-related	human-related	Homo sapiens	AB3638	2007	USA	severe trauma site	7	25	993	100	0.41
SAMN07303776	human-related	human-related	Homo sapiens	MCR10179	2015	Honduras	endobronchial tube	7	25	229	100	0
SAMN12771919	human-related	human-related	Homo sapiens	AMA3	2015	missing	missing	7	25	229	100	0.41
SAMN09951315	human-related	human-related	Homo sapiens	MC1	2015	Bolivia	catheter	7	991	1518	100	0.02
SAMN09951343	human-related	human-related	Homo sapiens	MC53	2016	Bolivia	wound	7	991	1518	99	0
SAMEA104305191	human-related	human-related	Homo sapiens	4300STDY7045695	2016	Thailand	missing	8	10	447	100	0.14
SAMN01828149	human-related	human-related	Homo sapiens	NIPH 335	1994	Czech Republic	sputum	8	10	447	100	0.27
SAMN02628531	human-related	human-related	Homo sapiens	LAC-4	1997	USA	missing	8	10	447	100	0.27
SAMN03068269	human-related	human-related	Homo sapiens	2011ZJAB4	2011	China	blood	8	10	447	100	0
SAMN07303773	human-related	human-related	Homo sapiens	MCR9238	2015	Honduras	wound	8	10	447	100	0.21
SAMN09095600	human-related	human-related	Homo sapiens	ABAY14008	2014	South Korea	blood	8	10	447	100	0
SAMN12605424	human-related	human-related	Homo sapiens	TVGH-612	2002	Taiwan	blood	8	10	447	99.73	0.41
SAMEA104305269	human-related	human-related	Homo sapiens	4300STDY7045774	2016	Thailand	missing	8	10	585	100	0.27
SAMN03080633	human-related	human-related	Homo sapiens	T214	2010	Thailand	missing	8	10	585	99.91	0.55
SAMN03068270	human-related	human-related	Homo sapiens	2004ZJAB5	2004	China	sputum	8	23	642	100	0
SAMN04745444	human-related	human-related	Homo sapiens	XH683	2012	China	sputum	8	23	642	99.98	0.68
SAMN08093368	human-related	human-related	Homo sapiens	ZQ9	2016	Iraq	blood	8	575	582	100	0.05
SAMN08093369	human-related	human-related	Homo sapiens	ZQ10	2016	Iraq	cerebrospinal fluid	8	575	582	100	0.05
SAMN16304032	animal origin	livestock	Sus scrofa dom	Res13-Abat-PEA21-1	2018	Canada	swab	---	Undetermine	Undetermine	100	0
SAMN10662617	animal origin	livestock	Sus scrofa dom	AB18PR065	2018	China	feces	---	1303	1929	100	0
SAMN16304042	animal origin	livestock	Sus scrofa dom	Res13-Abat-PEA28-1	2018	Canada	swab	---	375	Undetermine	100	0
SAMN16304041	animal origin	livestock	Sus scrofa dom	Res13-Abat-PEA25-1	2018	Canada	swab	---	Undetermine	Undetermine	100	0
SAMN16304029	animal origin	livestock	Sus scrofa dom	Res13-Abat-PEA16-1	2018	Canada	swab	---	Undetermine	Undetermine	100	0

SAMN16304027	animal origin	livestock	Sus scrofa dom	Res13-Abat-EA3-S5	2018	Canada	swab	--	Undetermine	Undetermine	100	0
SAMN15105067	animal origin	livestock	Sus scrofa	KCJK8630	2018	USA	feces	--	Undetermine	Undetermine	100	0.05
SAMN15105068	animal origin	livestock	Sus scrofa	KCJK8620	2018	USA	feces	--	Undetermine	Undetermine	100	0
SAMN27298904	animal origin	livestock	Sus scrofa dom	PF07	2006/2007	United Kingdom	faecal sample	--	162	235	100	0.07
SAMN27298905	animal origin	livestock	Sus scrofa dom	PF16	2006/2007	United Kingdom	faecal sample	--	162	235	100	0
SAMN27298906	animal origin	livestock	Sus scrofa dom	PF18	2006/2007	United Kingdom	faecal sample	--	162	235	100	0
SAMN27298907	animal origin	livestock	Sus scrofa dom	PF19	2006/2007	United Kingdom	faecal sample	--	162	235	100	0
SAMN27298908	animal origin	livestock	Sus scrofa dom	PF20	2006/2007	United Kingdom	faecal sample	--	162	235	100	0
SAMN27298909	animal origin	livestock	Sus scrofa dom	PF34	2006/2007	United Kingdom	faecal sample	--	162	235	100	0
SAMN27298910	animal origin	livestock	Sus scrofa dom	PF36	2006/2007	United Kingdom	faecal sample	--	162	235	100	0
SAMN10784980	animal origin	livestock	Bos taurus	C3T1-2	2014	Canada	manure	--	241	951	100	0
SAMN10784976	animal origin	livestock	Bos taurus	C1T1-1	2014	Canada	manure	--	Undetermine	Undetermine	100	0.55
SAMN10784979	animal origin	livestock	Bos taurus	C1T1-3	2014	Canada	manure	--	Undetermine	Undetermine	100	0.55
SAMN10784978	animal origin	livestock	Bos taurus	C1T1-2_b	2014	Canada	manure	--	Undetermine	Undetermine	100	0.55
SAMN04099660	animal origin	livestock	Bos taurus	TTU2014-131AME	2014	USA	feces	--	742	1133	100	0
SAMN20477964	animal origin	poultry	Gallus gallus dc	LHC22-2	2020	China	feces	--	Undetermine	Undetermine	100	0.48
SAMN27298896	animal origin	livestock	Bos taurus	CF233	2006/2007	United Kingdom	faecal sample	--	1014	Undetermine	100	0.55
SAMN27298897	animal origin	livestock	Bos taurus	CF234	2006/2007	United Kingdom	faecal sample	--	1014	Undetermine	100	0.55
SAMN27298898	animal origin	livestock	Bos taurus	CF251	2006/2007	United Kingdom	faecal sample	--	492	Undetermine	100	0.14
SAMN27298899	animal origin	livestock	Bos taurus	CF254	2006/2007	United Kingdom	faecal sample	--	492	Undetermine	100	0.14
SAMN27298900	animal origin	livestock	Bos taurus	CF258	2006/2007	United Kingdom	faecal sample	--	492	Undetermine	100	0.14
SAMN27298901	animal origin	livestock	Bos taurus	CF260	2006/2007	United Kingdom	faecal sample	--	492	Undetermine	100	0.14
SAMN27298902	animal origin	livestock	Bos taurus	CN26	2006/2007	United Kingdom	nostril sample	--	492	Undetermine	100	0.14
SAMN27298903	animal origin	livestock	Bos taurus	CN35	2006/2007	United Kingdom	nostril sample	--	492	Undetermine	100	0.14
SAMN05257112	animal origin	poultry	Gallus gallus dc	65	2012	Germany	missing	--	23	642	100	1.51
SAMN07236641	animal origin	poultry	Gallus gallus dc	GB1-2	2015	Germany	missing	--	23	761	100	0.41

