

Table S1. Strains included in the study.

Key	Strain name	Origin	Country	Year	Source or collection	Inclusion subset	Outbreak	Lineage	PCR serogroup	Clonal complex	ST	Ldh change	MvLST type	PFGE pattern
F2365	F2365	Food	California, USA	1985	GenBank	Outbreak set	Jalisco soft cheese, California, 1986-1987	1	IVb	CC1	1		0024	n.d.
LM10-01421	FSL C1-122	Human		1998	ILSI	Diversity Set		1	IVb	CC1	1		0024	Asc16Apa19
LM10-01440	TS43/F.4565, FSL J1-119	Human	USA	1985	ILSI	Outbreak set	Jalisco Soft Cheese, Los Angeles, USA, 1986-87	1	IVb	CC1	1		0024	Asc21Apa26
LM10-01441	TS50/L.4760, FSL N3-008	Food	Canada	1981	ILSI	Outbreak set	Coleslaw, Nova Scotia, Canada, 1981	1	IVb	CC1	1		0024	Asc23Apa28
LM10-01442	TS27/L.4738, FSL J1-108	Human	Canada	1981	ILSI	Outbreak set	Coleslaw, Nova Scotia, Canada, 1981	1	IVb	CC1	1		0024	Asc23Apa28
LM10-01445	TS21/L.4486j, FSL N3-022	Food	Switzerland	1987	ILSI	Outbreak set	Vacherin Mont d'Or, soft Cheese, Switzerland, 1983-87	1	IVb	CC1	1		0024	Asc16Apa26
LM10-01446	TS60/L.4486b, FSL J1-126	Human	Switzerland	1987	ILSI	Outbreak set	Vacherin Mont d'Or, soft Cheese, Switzerland, 1983-87	1	IVb	CC1	1		0024	Asc21Apa21
LM10-01458	TS55/L.4486a/DD6332, FSL J1-123	Human	Switzerland	1987	ILSI	Outbreak set	Vacherin Mont d'Or, soft Cheese, Switzerland, 1983-87	1	IVb	CC1	1		0024	Asc20Apa26
LM10453	10453	Food	United Kingdom	< 1988	CLIP	Selected based on MLST		1	IVb	CC1	1		0024	Asc20Apa19
LM17434	17434	Food	Belgium	1988	CLIP	Selected based on MLST		1	IVb	CC1	10		0024	Asc17Apa23
LM86256	LM86256	Human	France	2000	CLIP	Selected based on MLST		1	IVb	CC1	62		0024	Asc17Apa23
LM42629	42629	Unknown	United Kingdom	1993	CLIP	Selected based on MLST		1	IVb	CC1	73	T123J	0024	Asc17Apa22
SLCC1612	LM1612	Human	France	1963	SLCC	Selected based on MLST		1	IVb	CC1	73	T123J	0024	Asc24Apa18
LM82202	82202	Human	Denmark	1999	CLIP	Selected based on MLST		1	IVb	CC1	79	E137K	0024	Asc19Apa16
SLCC83	LM83	Food	USA	1937	SLCC	Selected based on MLST		1	IVb	CC1	119	Y95N	0026	n.d.
LM73014	LM73014	Unknown	France		CLIP	Selected based on MLST		1	IVb	CC1	134	T123J	0024	Asc24Apa26
LM12980	12980	Unknown	China	1987	CLIP	Selected based on MLST		1	IVb	CC1	243		0024	Asc22Apa24
LM68828	68828	Human	Sweden	1987	CLIP	Selected based on MLST		1	IVb	CC1	248	S120R	0024	Asc16Apa18
LM70327	70327	Human	New Zealand	1995	CLIP	Selected based on MLST		1	IVb	CC1	248	S120R	0024	Asc23Apa18
LM70927	70927	Animal	Greece	< 1996	CLIP	Selected based on MLST		1	IVb	CC1	252	Y95C	0024	Asc17Apa25
LM84790	84790	Environment	Portugal	< 2000	CLIP	Selected based on MLST		1	IVb	CC1	255	A93D	0024	Asc18Apa20
LM87422	87422	Human	Spain	2000	CLIP	Selected based on MLST		1	IVb	CC1	256	E137G	0024	Asc19Apa18
SLCC1849	SLCC1849	Animal	Switzerland	1964	SLCC	Selected based on MLST		1	IVb	CC1	258	I107M	0024	Asc19Apa18
LM84441	84441	Environment	France	2000	CLIP	Selected based on MLST		1	IVb	CC1	385		0025	Asc20Apa27
LM11-00084	2011/00084	Animal	Switzerland		CLIP	Selected based on MLST		1	IVb	CC1	413		0024	Asc25Apa26
LM11-00105	2011/00105	Animal	Switzerland		CLIP	Selected based on MLST		1	IVb	CC1	414		0024	Asc20Apa27
J0161	J0161	Human	USA	2000	GenBank	Outbreak set	Sliced turkey deli meat multistate outbreak, USA, 2000	2	IIa	CC11	11		0013	n.d.
LM10-01447	TS4/F.6854, FSL N3-031	Food	USA	1989	ILSI	Outbreak set	Sporadic, Turkey Franks, Oklahoma, USA, 1989	2	IIa	CC11	11		0013	Asc15Apa50
LM10-01459	J2818, FSL F6-154	Food	USA	2000	ILSI	Outbreak set	Sliced turkey deli meat multistate outbreak, USA, 2000	2	IIa	CC11	11		0013	Asc15Apa50
LM10-01429	FSL M1-004	Human		1997	ILSI	Diversity Set		2	IIa	CC155	155		0007	Asc33Apa48
LM10-01432	FSL J2-063	Animal		1993	ILSI	Diversity Set		2	IIa	CC16	16		0003	Asc34Apa39
Aureli1997	Aureli1997		Italy	1997	Reference strain	Outbreak set	Febrile gastroenteritis outbreak, Italy, 1997	1	IVb	CC2	2		0030	n.d.
LM06-01589	2006/01589	Food	Colombia	unknown	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc11Apa7
LM07-00231	2007/00231	Food	Morocco	unknown	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc9Apa5
LM09-00290	2009/00290	Human	Tunisia	2005	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc9Apa5
LM10-01417	Scott A, FSL J1-225	Human	USA	1983	ILSI	Outbreak set	Pasteurized milk, Massachusetts, USA, 1983	1	IVb	CC2	2		0028	Asc8Apa5
LM10-01443	TS45/L.3350, FSL N3-013	Food	United Kingdom	1988	ILSI	Outbreak set	Pâté outbreak, UK and Ireland, 1987-89	1	IVb	CC2	2		0027	Asc8Apa5
LM10-01444	TS38/L.3306, FSL J1-116	Human	United Kingdom	1988	ILSI	Outbreak set	Pâté outbreak, UK and Ireland, 1987-89	1	IVb	CC2	2		0027	Asc8Apa5
LM10976	10976	Animal	Algeria	1988	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc14Apa13
LM13007	13007	Unknown	Australia	< 1989	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc11Apa9
LM21436	21436	Food	China	unknown	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc12Apa11
LM58204	58204	Human	Tunisia	1994	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc9Apa8
LM59597	59597	Human	Spain	1991	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc9Apa5
LM69877	69877	Human	Argentina	unknown	CLIP	Selected based on MLST		1	IVb	CC2	2		0029	Asc11Apa15
LM70320	70320	Human	New Zealand	1995	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc11Apa9
LM70940	70940	Animal	Greece	< 1996	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc9Apa8
LM76305	76305	Human	Algeria	1998	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc9Apa6
LM76641	76641	Food	Portugal	1998	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc9Apa8
LM80415	80415	Food	Qatar	unknown	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc9Apa12
LM85058	85058	Food	Colombia	2000	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc12Apa10
LM88513	88513	Environment	Mexico	1999	CLIP	Selected based on MLST		1	IVb	CC2	2		0027	Asc11Apa9
SLCC1531	SLCC1531	Human	Denmark	1962	SLCC	Selected based on MLST		1	IVb	CC2	2		0027	Asc10Apa9
SLCC2524	SLCC2524	Human	United Kingdom	1966	SLCC	Selected based on MLST		1	IVb	CC2	2		0027	Asc11Apa8
SLCC299	SLCC299	Human	USA	1955	SLCC	Selected based on MLST		1	IVb	CC2	2		0027	Asc14Apa14
LM15843	LM15843	Human	France	1990	CLIP	Selected based on MLST		1	IVb	CC2	50		0027	Asc13Apa4
LM84220	LM84220	Human	France	2000	CLIP	Selected based on MLST		1	IVb	CC2	51		0027	Asc12Apa8
LM75327	75327	Human	Morocco	unknown	CLIP	Selected based on MLST		1	IVb	CC2	277		0027	Asc8Apa17
LM10-01423	FSL J1-177	Human		1997	ILSI	Diversity Set		1	IIb	CC288	288		0033	Asc5Apa34
FSLN1-017	FSLN1-017	Food	USA		GenBank	Reference strain		1	IIb	CC3	3		0035	n.d.
LM10-01426	FSL J1-049	Human		2010	ILSI	Diversity Set		1	IIb	CC3	3		0035	Asc3Apa30
LM10-01453	G6003, FSL R2-502	Food	USA	1994	ILSI	Outbreak set	Pasteurized chocolate milk, Illinois, USA, 1994	1	IIb	CC3	3		0035	Asc3Apa29
LM10-01454	G6054, FSL R2-503	Human	USA	1994	ILSI	Outbreak set	Pasteurized chocolate milk, Illinois, USA, 1994	1	IIb	CC3	3		0035	Asc3Apa29
LM10-01430	FSL J2-031	Animal		1996	ILSI	Diversity Set		2	IIa	CC394	394		0004	Asc30Apa37
LM80459	CLIP 80459	Human	France	1999	CLIP	Outbreak set	Pork rillettes (Potted pork, pâté-like RTE meat), France, 1999-2000	1	IVb	CC4	4		0020	n.d.
FSLJ2-064	FSLJ2-064	Human	USA		GenBank	Reference strain		1	IIb	CC5	5		0036	n.d.
LM10-01422	FSL J2-064	Animal		1989	ILSI	Diversity Set		1	IIb	CC5	5		0036	Asc4Apa1
LM10-01425	FSL J1-169	Human		1996	ILSI	Diversity Set		1	IIb	CC5	5		0036	Asc2Apa2
LM10-01424	CU-BR9/93, FSL J2-035	Animal		1993	ILSI	Diversity Set		1	IIb	CC59	59		0034	Asc1Apa3
LM07-01127	2007/01127	Food	Netherlands	< 2007	CLIP	Selected based on MLST		1	IVb	CC6	6		0021	Asc6Apa35
LM10-01418	H7550, FSL N1-225	Human	USA	1998	ILSI	Outbreak set	Hot dogs / meat frankfurters, Multiple states, USA, 1998-99	1	IVb	CC6	6		0021	Asc6Apa36
LM10-01450	H7738, FSL N1-227	Food	USA	1998	ILSI	Outbreak set	Hot dogs / meat frankfurters, Multiple states, USA, 1998-99	1	IVb	CC6	6		0022	Asc6Apa35
LM10-01455	J1735, FSL R2-763	Human	USA	2002	ILSI	Outbreak set	Delicatessen turkey ready-to-eat meats, Multiple states, USA, 2002	1	IVb	CC6	6		0021	Asc7Apa35
LM10-01456	J1925, FSL R2-764	Food	USA	2002	ILSI	Outbreak set	Delicatessen turkey ready-to-eat meats, Multiple states, USA, 2002	1	IVb	CC6	6		0021	Asc7Apa35

LM10-01457	J1815, FSL R2-765	Environment	USA	2002	ILSI	Outbreak set	Delicatessen turkey ready-to-eat meats, Multiple states, USA, 2002	1	IVb	CC6	6	0021	Asc7Apa35	
LM67774	67774	Environment	Greece	< 1995	CLIP	Selected based on MLST		1	IVb	CC6	6	0021	Asc6Apa35	
LM67783	67783	Food	Greece	< 1995	CLIP	Selected based on MLST		1	IVb	CC6	6	0021	Asc6Apa35	
LM77002	LM77002	Human	France	1998	CLIP	Selected based on MLST		1	IVb	CC6	6	0021	Asc6Apa31	
LM77092	LM77092	Human	France	1998	CLIP	Selected based on MLST		1	IVb	CC6	6	0023	Asc6Apa31	
LM81146	LM81146	Human	France	2000	CLIP	Selected based on MLST		1	IVb	CC6	6	0021	Asc6Apa33	
LM81438	LM81438	Human	France	2000	CLIP	Selected based on MLST		1	IVb	CC6	6	0021	Asc6Apa33	
LM84344	LM84344	Human	France	2000	CLIP	Selected based on MLST		1	IVb	CC6	6	0021	Asc6Apa31	
LM88501	88501	Environment	Mexico	1999	CLIP	Selected based on MLST		1	IVb	CC6	6	0021	Asc6Apa32	
LM95986	LM95986	Human	France	2004	CLIP	Selected based on MLST		1	IVb	CC6	6	0021	Asc6Apa31	
LM10-01427	FSL C1-056	Human		1998	ILSI	Diversity Set		2	IIa	CC7	7	0008	Asc26Apa53	
LM24902	24902	Food	United Kingdom	1992	CLIP	Selected based on MLST		2	IIa	CC7	7	0008	Asc29Apa51	
LM56346	56346	Animal	Israel	1993	CLIP	Selected based on MLST		2	IIa	CC7	7	0008	Asc26Apa51	
LM8077	8077	Food	Finland	1987	CLIP	Selected based on MLST		2	IIa	CC7	7	0008	Asc28Apa52	
SLCC2864	SLCC2864	Food	Germany	1968	SLCC	Selected based on MLST		2	IIa	CC7	7	0010	Asc27Apa46	
EGD	EGD				Reference strain	Reference strain		2	IIa	CC7	12		n.d.	
10403S	10403S	Human	USA	1968	GenBank	Reference strain		2	IIa	CC7	85	S120R	n.d.	
LM68625	68625	Human	Algeria	1992	CLIP	Selected based on MLST		2	IIa	CC8	8		Asc34Apa39	
08-5923	08-5923	Human	Canada	2008	GenBank	Outbreak set	ready-to-eat meat products outbreak, Canada, 2008	2	IIa	CC8	120		n.d.	
LM68619	68619	Human	Italy	1995	CLIP	Selected based on MLST		2	IIa	CC8	120		Asc35Apa40	
LM62719	62719	Human	New Zealand	1994	CLIP	Selected based on MLST		2	IIa	CC8	232	H121R	Asc35Apa39	
LM90291	90291	Food	Chile	unknown	CLIP	Selected based on MLST		2	IIa	CC8	289	Y95C	Asc39Apa39	
08-5578	08-5578	Human	Canada	2008	GenBank	Outbreak set	ready-to-eat meat products outbreak, Canada, 2008	2	IIa	CC8	292		n.d.	
LM05-01099	2005/01099	Human	Portugal	< 2005	CLIP	Selected based on MLST		2	IIc	CC9	9		Asc36Apa43	
LM06-00139	2006/00139	Environment	France	2006	CLIP	Selected based on MLST		2	IIc	CC9	9		Asc36Apa43	
LM06-00810	2006/00810	Environment	Italy	2005	CLIP	Selected based on MLST		2	IIc	CC9	9		Asc38Apa43	
LM07-01172	2007/01172	Animal	Italy	2003	CLIP	Selected based on MLST		2	IIc	CC9	9		Asc37Apa45	
LM10-01433	TS02/L896, FSL J1-094	Human		2010	ILSI	Diversity Set		2	IIc	CC9	9		Asc36Apa43	
LM11308	11308	Human	New Zealand	1988	CLIP	Selected based on MLST		2	IIc	CC9	9		Asc36Apa43	
LM12485	12485	Food	France	1988	CLIP	Selected based on MLST		2	IIc	CC9	9		Asc36Apa43	
LM14228	14228	Food	Denmark	1989	CLIP	Selected based on MLST		2	IIa	CC9	9		Asc38Apa43	
LM15183	15183	Human	Finland	1989	CLIP	Selected based on MLST		2	IIc	CC9	9		Asc37Apa43	
LM70956	70956	Animal	Greece	< 1996	CLIP	Selected based on MLST		2	IIc	CC9	9		Asc36Apa43	
LM71634	71634	Food	Portugal	< 1996	CLIP	Selected based on MLST		2	IIc	CC9	9		Asc37Apa44	
LM78008	78008	Unknown	Germany	< 1999	CLIP	Selected based on MLST		2	IIc	CC9	9		Asc38Apa43	
LM8742	8742	Food	Austria	1986	CLIP	Selected based on MLST		2	IIc	CC9	9		Asc42Apa43	
LM8796	8796	Food	Austria	1988	CLIP	Selected based on MLST		2	IIc	CC9	9		Asc36Apa43	
LM9134	9134	Food	Spain	1988	CLIP	Selected based on MLST		2	IIc	CC9	9		Asc36Apa43	
EGDe-CNR	EGDe-CNR		Europe		Reference strain	Reference strain		2	IIa	CC9	35		Asc39Apa47	
LM67781	67781	Food	Greece	< 1995	CLIP	Selected based on MLST		2	IIc	CC9	115	E115G	Asc37Apa43	
SLCC21	SLCC21	Human	United Kingdom	1935	SLCC	Selected based on MLST		2	IIc	CC9	122	F145L	Asc36Apa43	
LO28	LO28				Reference strain	Reference strain		2	IIc	CC9	210	M146K	0014	n.d.
LM07-01124	2007/01124	Human	Netherlands	< 2007	CLIP	Selected based on MLST		2	IIc	CC9	223		0014	Asc36Apa43
FSLN3-165	FSLN3-165	Animal	USA		GenBank	Reference strain		2	IIa	CC90	90		0006	n.d.
LM10-01434	FSL C1-115	Human		1998	ILSI	Diversity Set		2	IIa	singleton ST370	370		0017	Asc41Apa49
LM10-01431	FSL J2-066	Animal		1994	ILSI	Diversity Set		2	IIa	singleton ST376	376		0005	Asc31Apa38
LM10-01428	CU-BR1/93, FSL J2-054	Animal		1993	ILSI	Diversity Set		2	IIa	singleton ST412	412		0018	Asc40Apa42
LM10-01419	FSL J2-020	Animal		1986	ILSI	Diversity Set		2	IIa	singleton ST556	556		0012	Asc32Apa41
LM10-01451	J0144, FSL R2-500	Food	USA	2000	ILSI	Outbreak set	Home-made Mexican-style fresh Cheese Queso fresco, N. Carolina, USA, 2000-2001	1	IVb	singleton ST558	558		0019	Asc21Apa27
LM10-01452	J0211, FSL R2-501	Human	USA	2000	ILSI	Outbreak set	Home-made Mexican-style fresh Cheese Queso fresco, N. Carolina, USA, 2000-2001	1	IVb	singleton ST558	558		0019	Asc21Apa27
FSLJ1-175	FSLJ1-175	Environment	USA		GenBank	Reference strain		1	IIb	singleton ST87	87		0031	n.d.
FSLJ1-194	FSLJ1-194	Human	USA		GenBank	Reference strain	sporadic listeriosis case	1	IIb	singleton ST88	88		0032	n.d.

The table is sorted by the clonal complex column information, then by ST, then by key

CLIP: Collection of Listeria of Institut Pasteur; ILSI: International Life Sciences Institute North America Listeria monocytogenes strain collection

SLCC: Seeliger Listeria culture collection