

Supplementary Table S1. List of genes previously shown to be linked to cold tolerance in *L. Monocytogenes*.

Gene name	Aliases	Function	Temperature	Assay/Remark	References
<i>OppA</i>	<i>lmo2569</i>	similar to dipeptide ABC transporter (dipeptide-binding protein)	5°C	A strain LO28 deletion mutant exhibited lower growth rate than wildtype (WT)	[1]
<i>gbuA</i>	<i>lmo1014</i>	highly similar to glycine betaine ABC transporter (ATP-binding protein)	4°C	Deletion mutant exhibited lower growth rate against WT using 10403S strain.	[2]
<i>gbuB</i>	<i>lmo1015</i>	highly similar to glycine betaine ABC transporters (permease)	4°C	Deletion mutant exhibited lower growth rate against WT using 10403S strain.	[2]
<i>gbuC</i>	<i>lmo1016</i>	highly similar to glycinebetaine ABC transporters (permease)	4°C	Deletion mutant exhibited lower growth rate against WT using 10403S strain.	[2]
<i>betL</i>	<i>lmo2092</i>	glycine betaine transporter	4°C	Deletion mutant exhibited lower generation time against WT using 10403S strain.	[2]
<i>OpuCA</i>	<i>lmo01428</i>	similar to glycine betaine/carnitine/choline ABC transporter (ATP-binding protein)	4°C	Deletion mutant exhibited lower generation time against WT using 10403S strain.	[2]
<i>OpuCB</i>	<i>lmo01427</i>	similar to glycine betaine/carnitine/choline ABC transporter (membrane protein)	4°C	Deletion mutant exhibited lower generation time against WT using 10403S strain.	[2]

<i>OpuCC</i>	<i>lmo01426</i>	similar to glycine betaine/carnitine/choline ABC transporter (osmoprotectant-binding protein)	4°C	Deletion mutant exhibited lower generation time against WT using 10403S strain.	[2]
<i>OpuCD</i>	<i>lmo01425</i>	similar to betaine/carnitine/choline ABC transporter (membrane p)	4°C	Deletion mutant exhibited lower generation time against WT using 10403S strain.	[2]
<i>flaA</i>	<i>lmo00690</i>	flagellin protein	10°C	The genes was expressed in response to growth at low temperature	[3]
<i>fbP</i>	<i>lmo00830</i>	highly similar to fructose- 1,6-bisphosphatase	10°C	Genes expressed in response to growth at low temperature	[3]
<i>orfX</i>	<i>lmo0206</i>	hypothetical protein	3°C	Deletion mutant exhibited longer lag time then WT using EGD strain	[4]
<i>sigB</i>	<i>lmo00895</i>	RNA polymerase sigma-37 factor (sigma-B)	8°C	Deletion mutant shown double lag time compared to WT using 10403S starin	[5]
<i>rpoN (sigL)</i>	<i>lmo02461</i>	RNA polymerase sigma-54 factor (sigma-L)	10°C	Genes Expressed in Response to Growth at Low Temperature	[3]
<i>bglG</i>	<i>lmo00501</i>	similar to transcription antiterminator BglG family	10°C	Genes Expressed in Response to Growth at Low Temperature	[3]

<i>hfq</i>	<i>lmo01295</i>	similar to host factor-1 protein	4°C	Mutant strain displayed a slightly prolonged lag phase than WT using EGD strain.	[6]
<i>degU</i>	<i>lmo02515</i>	similar to B. subtilis two-component response regulator	25°C	Transcriptional activator of <i>flaA</i> gene, in EGD strain	[7]
<i>yycJ</i>	<i>lmo00291</i>	conserved hypothetical protein similar to <i>B. subtilis</i> <i>YycJ</i> protein	10°C	Genes expressed in response to growth at low temperature in 10403S strain	[3]
<i>lhkA</i>	<i>lmo1508</i>	similar to two-component sensor histidine kinase	10°C	Genes expressed in response to growth at low temperature in 10403S strain	[3]
<i>psr</i>	<i>lmo0443</i>	similar to <i>B. subtilis</i> transcription regulator <i>LytR</i>	10°C	Genes expressed in response to growth at low temperature in 10403S strain	[3]
<i>cspL, cspA</i>	<i>lmo01364</i>	similar to cold shock protein	4, and 10°C	Gene expressed in response to cold shock at 10 °C in LO28 strain	[8]
<i>cspD</i>	<i>lmo01879</i>	similar to major cold-shock protein	4, and 10°C	Deletion mutant exhibited longer lag time then WT using EGDe strain	[8]
<i>fri (flp)</i>	<i>lmo0943</i>	non-heme iron-binding ferritin	10°C	Genes expressed in response to grow at 10°C	[3]
<i>trxB</i>	<i>lmo2478</i>	thioredoxin reductase	10°C	Genes expressed in response to grow at 10°C	[3]

<i>aroA</i>	<i>lmo1600</i>	3-deoxy-D-arabino-heptulosonate 7-phosphate synthase	10°C	Genes expressed in response to grow at 10°C	[3]
<i>cysS</i>	<i>lmo0239</i>	CysteinyI-tRNA synthetase	10°C	Genes expressed in response to grow at 10°C	[3]
<i>trpG</i>	<i>lmo1632</i>	highly similar to anthranilate synthase beta subunit	10°C	Genes expressed in response to grow at 10°C	[3]
<i>ltrA</i>	<i>lmo0389</i>	low temperature requirement protein A	4°C	Genes Expressed in Response to Growth at Low Temperature	[9]
<i>ltrB</i>	<i>lmo0215</i>	low temperature requirement B protein	4°C	Genes Expressed in Response to Growth at Low Temperature	[9]
<i>ltrC</i>	<i>lom2398</i>	low temperature requirement C protein	4°C	Genes Expressed in Response to Growth at Low Temperature	[9]
<i>groEL</i>	<i>lmo2068</i>	class I heat-shock protein (chaperonin) <i>GroEL</i>	10°C	Multiple strains Genes Expressed in Response to Growth at Low Temperature	[3]
<i>clpP</i>	<i>lmo2468</i>	ATP-dependent <i>Clp</i> protease proteolytic subunit	10°C	Genes Expressed in Response to Growth at Low Temperature	[3]
<i>clpB</i>	<i>lmo2206</i>	similar to endopeptidase <i>Clp</i> ATP-binding chain B (<i>ClpB</i>)	10°C	Genes Expressed in Response to Growth at Low Temperature	[3]

<i>deaD</i>	<i>lmo0866</i>	similar to ATP-dependent RNA helicase	3°C	Deletion mutant Vs wildtype EGDe No difference growth rate but shorten lag in WT	[10]
<i>deaD</i>	<i>lmo1450</i>	similar to ATP-dependent RNA helicase, DEAD-box family (<i>deaD</i>)	3°C	Deletion mutant Vs wildtype EGDe No difference growth rate but shorten lag in WT	[10]
<i>deaD</i>	<i>lmo1722</i>	similar to ATP-dependent RNA helicase, DEAD-box family (<i>deaD</i>)	3°C	Deletion mutant Vs wildtype EGDe No difference growth rate but shorten lag in WT	[10]
<i>pgpH</i>	<i>lmo1466</i>	similar to unknown proteins	3°C	Genes Expressed in Response to Growth at Low Temperature	[11]
<i>yycG</i>	<i>lmo0288</i>	Sensors (signal transduction)	3°C	Genes Expressed in Response to Growth at Low Temperature	[12]
<i>LisR</i>	<i>lmo01377</i>	two-component response regulator	3°C	Genes Expressed in Response to Growth at Low Temperature	[12]
<i>resE</i>	<i>lmo01947</i>	similar to two-component sensor histidine kinase (<i>ResE</i>)	3°C	Deletion mutant Vs wildtype EGDe low growth rate than WT	[12]
<i>flhA</i>	<i>lmo0680</i>	similar to flagella-associated protein <i>flhA</i>	3°C	Deletion mutant Vs wildtype EGDe low growth rate than WT	[13]

<i>MotA</i>	<i>lmo0685</i>	similar to motility protein (flagellar motor rotation) <i>MotA</i>	3°C	Deletion mutant Vs wildtype EGDe low growth rate than WT	[13]
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Supplementary Table S2. Isolate characteristics and phenotypic traits.

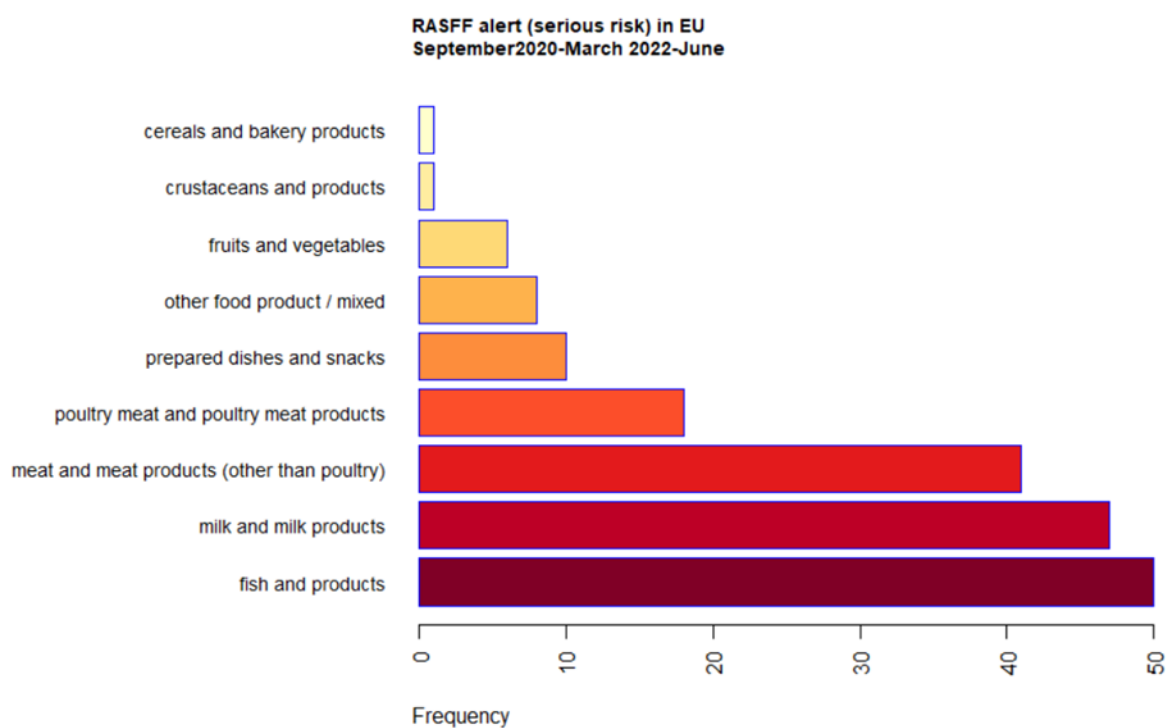
ID	Source	CC	Lineage	Serogroup	Plasmid	μ_{4C}	μ_{7C}	H_Cluster
Lm966	Environment	CC220	I	4b,4d,4e	Absent	0.0123	0.0179	Slow
Lm974	Environment	CC121	II	1/2a,3a	Present	0.0134	0.0153	Slow
Lm976	Mixed food	CC20	II	1/2a,3a	Absent	0.0138	0.0241	Fast
Lm1055	Environment	CC59	I	1/2b,3b,7	Absent	0.0110	0.0127	Slow
Lm1093	Environment	CC59	I	1/2b,3b,7	Absent	0.0128	0.0176	Slow
Lm1095	Environment	CC37	II	1/2a,3a	Absent	0.0149	0.0264	Fast
Lm1123	Seafood	CC121	II	1/2a,3a	Present	0.0138	0.0227	Fast
Lm1203	Environment	CC18	II	1/2a,3a	Absent	0.0148	0.0292	Fast
Lm1268	Dairy	CC224	I	1/2b,3b,7	Absent	0.0131	0.0125	Slow
Lm1304	Environment	NOVEL	II	1/2a,3a	Present	0.0155	0.0212	Fast
Lm1306	Environment	NOVEL	II	1/2a,3a	Present	0.0146	0.0243	Fast
Lm1309	Environment	CC204	II	1/2a,3a	Present	0.0144	0.0207	Fast
Lm1313	Environment	CC121	II	1/2a,3a	Present	0.0144	0.0227	Fast
Lm1321	Environment	CC101	II	1/2a,3a	Present	0.0118	0.0200	Slow
Lm1370	Meat	CC9	II	1/2c,3c	Absent	0.0155	0.0284	Fast
Lm1371	Meat	CC31	II	1/2a,3a	Present	0.0118	0.0138	Slow
Lm1372	Meat	CC3	I	1/2b,3b,7	Present	0.0140	0.0143	Slow
Lm1373	Meat	CC121	II	1/2a,3a	Present	0.0128	0.0172	Slow
Lm1374	Meat	CC3	I	1/2b,3b,7	Present	0.0140	0.0120	Slow
Lm1375	Meat	CC2	I	4b,4d,4e	Absent	0.0127	0.0178	Slow
Lm1376	Meat	CC3	I	1/2b,3b,7	Absent	0.0131	0.0161	Slow
Lm1377	Meat	CC2	I	4b,4d,4e	Absent	0.0130	0.0165	Slow
Lm1378	Dairy	CC5	I	1/2b,3b,7	Present	0.0136	0.0175	Slow
Lm1379	Dairy	CC14	II	1/2a,3a	Absent	0.0146	0.0272	Fast
Lm1380	Meat	CC2	I	4b,4d,4e	Absent	0.0129	0.0178	Slow
Lm1381	Meat	CC2	I	4b,4d,4e	Absent	0.0112	0.0159	Slow
Lm1382	Dairy	CC4	I	4b,4d,4e	Absent	0.0142	0.0153	Slow
Lm1383	Dairy	CC412	II	1/2a,3a	Absent	0.0148	0.0212	Fast
Lm1384	Seafood	CC59	I	1/2b,3b,7	Absent	0.0112	0.0166	Slow
Lm1385	Seafood	CC155	II	1/2a,3a	Absent	0.0150	0.0259	Fast
Lm1386	Seafood	CC5	I	1/2b,3b,7	Present	0.0135	0.0185	Slow
Lm1387	Seafood	CC2	I	4b,4d,4e	Absent	0.0157	0.0171	Fast
Lm1388	Seafood	CC2	I	4b,4d,4e	Absent	0.0130	0.0183	Slow
Lm1389	Seafood	CC31	II	1/2a,3a	Present	0.0151	0.0168	Fast
Lm1390	Dairy	CC4	I	4b,4d,4e	Absent	0.0132	0.0133	Slow
Lm1391	Dairy	CC54	I	4b,4d,4e	Absent	0.0115	0.0125	Slow
Lm1392	Seafood	CC6	I	4b,4d,4e	Absent	0.0139	0.0134	Slow
Lm1393	Meat	CC2	I	4b,4d,4e	Absent	0.0142	0.0167	Slow
Lm1394	Dairy	CC26	II	1/2a,3a	Absent	0.0178	0.0224	Fast
Lm1403	Seafood	CC121	II	1/2a,3a	Present	0.0156	0.0140	Fast
Lm1411	Environment	CC1	I	4b,4d,4e	Absent	0.0127	0.0137	Slow
Lm1413	Environment	CC2	I	4b,4d,4e	Absent	0.0127	0.0117	Slow
Lm1423	Environment	CC121	II	1/2a,3a	Present	0.0129	0.0100	Slow
Lm1427	Environment	NOVEL	II	1/2a,3a	Present	0.0152	0.0179	Fast
Lm1428	Environment	NOVEL	II	1/2a,3a	Present	0.0162	0.0201	Fast
Lm1439	Seafood	CC121	II	1/2a,3a	Present	0.0125	0.0125	Slow
Lm1441	Environment	CC5	I	1/2b,3b,7	Present	0.0117	0.0127	Slow

Lm1445	Meat	CC7	II	1/2a,3a	Absent	0.0121	0.0135	Slow
Lm1502	Environment	NOVEL	II	1/2a,3a	Absent	0.0160	0.0189	Fast
Lm1507	Environment	NOVEL	II	1/2a,3a	Absent	0.0141	0.0192	Fast
Lm1513	Seafood	CC121	II	1/2a,3a	Present	0.0137	0.0162	Slow
Lm1515	Environment	CC18	II	1/2a,3a	Absent	0.0155	0.0210	Fast
Lm1519	Seafood	CC121	II	1/2a,3a	Present	0.0126	0.0181	Slow
Lm1527	Environment	CC37	II	1/2a,3a	Absent	0.0148	0.0226	Fast
Lm1534	Meat	CC6	I	4b,4d,4e	Absent	0.0121	0.0162	Slow
Lm1564	Environment	CC2	I	4b,4d,4e	Absent	0.0132	0.0150	Slow
Lm1679	Environment	CC204	II	1/2a,3a	Absent	0.0163	0.0183	Fast
Lm1798	Dairy	CC18	II	1/2a,3a	Absent	0.0152	0.0207	Fast
Lm1880	Vegetable	CC8	II	1/2a,3a	Present	0.0137	0.0222	Fast
Lm1976	Environment	CC8	II	1/2a,3a	Present	0.0147	0.0275	Fast
Lm1989	Seafood	CC121	II	1/2a,3a	Present	0.0126	0.0197	Slow
Lm1991	Seafood	CC121	II	1/2a,3a	Present	0.0125	0.0168	Slow
Lm2075	Environment	CC14	II	1/2a,3a	Absent	0.0148	0.0254	Fast
Lm2095	Environment	CC54	I	4b,4d,4e	Absent	0.0057	0.0107	Slow
Lm2105	Environment	CC54	I	4b,4d,4e	Absent	0.0120	0.0128	Slow
Lm2113	Environment	CC1	I	4b,4d,4e	Absent	0.0123	0.0102	Slow
Lm2181	Environment	CC220	I	4b,4d,4e	Absent	0.0113	0.0127	Slow
Lm2183	Environment	CC2	I	4b,4d,4e	Absent	0.0153	0.0155	Fast
Lm2185	Environment	CC14	II	1/2a,3a	Absent	0.0165	0.0194	Fast
Lm2226	Environment	CC220	I	4b,4d,4e	Absent	0.0166	0.0139	Fast
Lm2234	Environment	CC220	I	4b,4d,4e	Absent	0.0147	0.0145	Fast
Lm2237	Environment	CC2	I	4b,4d,4e	Absent	0.0079	0.0185	Slow
Lm2240	Environment	CC59	I	1/2b,3b,7	Absent	0.0134	0.0127	Slow
Lm2241	Environment	CC59	I	1/2b,3b,7	Absent	0.0143	0.0150	Slow
Lm2256	Environment	CC121	II	1/2a,3a	Absent	0.0192	0.0258	Fast
Lm2259	Environment	CC54	I	4b,4d,4e	Absent	0.0125	0.0166	Slow
Lm2294	Environment	CC8	II	1/2a,3a	Present	0.0153	0.0217	Fast
Lm2298	Environment	CC379	I	1/2b,3b,7	Absent	0.0132	0.0153	Slow
Lm2507	Environment	CC220	I	4b,4d,4e	Absent	0.0133	0.0135	Slow
Lm3442	Vegetable	CC87	I	1/2b,3b,7	Absent	0.0114	0.0134	Slow
Lm3443	Vegetable	CC18	II	1/2a,3a	Absent	0.0174	0.0196	Fast
Lm3444	Vegetable	CC1	I	4b,4d,4e	Absent	0.0134	0.0124	Slow
Lm3445	Vegetable	CC54	I	4b,4d,4e	Absent	0.0124	0.0129	Slow
Lm3446	Vegetable	CC54	I	4b,4d,4e	Absent	0.0129	0.0168	Slow
Lm3447	Vegetable	CC59	I	1/2b,3b,7	Absent	0.0139	0.0130	Slow
Lm3448	Vegetable	CC18	II	1/2a,3a	Absent	0.0183	0.0212	Fast
Lm6179	Dairy	CC121	II	1/2c,3c	Present	0.0165	0.0174	Fast
Lm10403S	Clinical	CC7	II	1/2a,3a	Absent	0.0148	0.0171	Fast
Lm1513C	Environment	NOVEL	II	1/2a,3a	Absent	0.0120	0.0197	Slow
LmEGD-e	Clinical	CC9	II	1/2c,3c	Absent	0.0168	0.0199	Fast
LmF1109-17	Environment	CC121	II	1/2a,3a	Present	0.0084	0.0105	Slow
LmF111-17	Mixed food	CC121	II	1/2a,3a	Present	0.0140	0.0156	Slow
LmF112-17	Mixed food	CC121	II	1/2a,3a	Present	0.0137	0.0141	Slow
LmF114-17	Mixed food	CC121	II	1/2a,3a	Present	0.0157	0.0174	Fast
LmF1209-16	Environment	CC121	II	1/2a,3a	Present	0.0133	0.0141	Slow
LmF1221-16	Meat	CC121	II	1/2a,3a	Present	0.0123	0.0150	Slow
LmF1230-16	Meat	CC121	II	1/2a,3a	Present	0.0139	0.0120	Slow

LmF1524-16	Environment	CC5	1	1/2b,3b,7	Present	0.0130	0.0102	Slow
LmF1644-17	Environment	CC5	1	1/2b,3b,7	Present	0.0106	0.0152	Slow
LmF1646-17	Environment	CC121	11	1/2a,3a	Present	0.0134	0.0147	Slow
LmF168-17	Environment	CC121	11	1/2a,3a	Present	0.0131	0.0118	Slow
LmF1857-15	Environment	CC5	1	1/2b,3b,7	Present	0.0117	0.0134	Slow
LmF1994-15	Meat	CC220	1	4b,4d,4e	Absent	0.0119	0.0132	Slow
LmF2151-17	Meat	CC121	11	1/2a,3a	Present	0.0125	0.0133	Slow
LmF2152-17	Meat	CC121	11	1/2a,3a	Present	0.0127	0.0105	Slow
LmF2153-17	Meat	CC121	11	1/2a,3a	Present	0.0125	0.0123	Slow
LmF2154-17	Meat	CC121	11	1/2a,3a	Present	0.0121	0.0192	Slow
LmF2155-17	Meat	CC121	11	1/2a,3a	Present	0.0124	0.0125	Slow
LmF2160-17	Meat	CC121	11	1/2a,3a	Present	0.0125	0.0146	Slow
LmF2161-17	Environment	CC121	11	1/2a,3a	Absent	0.0132	0.0125	Slow
LmF2165-17	Environment	CC121	11	1/2a,3a	Present	0.0081	0.0113	Slow
LmF2166-17	Environment	CC5	1	1/2b,3b,7	Present	0.0100	0.0137	Slow
LmF2170-17	Environment	CC121	11	1/2a,3a	Present	0.0080	0.0213	Slow
LmF2176-17	Environment	CC5	1	1/2b,3b,7	Present	0.0108	0.0156	Slow
LmF2299-15	Environment	CC5	1	1/2b,3b,7	Present	0.0095	0.0135	Slow
LmF2365	Dairy	CC1	1	4b,4d,4e	Absent	0.0122	0.0132	Slow
LmF340-17	Environment	CC121	11	1/2a,3a	Present	0.0118	0.0146	Slow
LmF345-17	Environment	CC121	11	1/2a,3a	Present	0.0117	0.0136	Slow
LmF347-16	Environment	CC5	1	1/2b,3b,7	Present	0.0173	0.0165	Fast
LmF347-17	Environment	CC121	11	1/2a,3a	Present	0.0115	0.0146	Slow
LmF348-17	Environment	CC121	11	1/2a,3a	Present	0.0111	0.0120	Slow
LmF365-16	Meat	CC121	11	1/2a,3a	Present	0.0117	0.0146	Slow
LmF671-16	Environment	CC5	1	1/2b,3b,7	Present	0.0100	0.0149	Slow
LmF742-17	Environment	CC5	1	1/2b,3b,7	Present	0.0110	0.0134	Slow
LmF991-16	Environment	CC5	1	1/2b,3b,7	Present	0.0136	0.0136	Slow
LmMQ130026	Clinical	CC1	1	4b	Absent	0.0125	0.0151	Slow
LmMQ130029	Clinical	CC1	1	4b	Absent	0.0123	0.0151	Slow
LmMQ130032	Clinical	CC1	1	4b	Absent	0.0148	0.0160	Fast
LmMQ130033	Clinical	CC54	1	4b	Absent	0.0159	0.0179	Fast
LmMQ130037	Clinical	CC18	11	1/2a	Present	0.0148	0.0237	Fast
LmMQ130042	Clinical	CC1	1	4b	Absent	0.0118	0.0156	Slow
LmMQ130058	Clinical	CC6	1	4b	Absent	0.0139	0.0136	Slow
LmMQ140011	Clinical	CC101	11	1/2a	Absent	0.0141	0.0272	Fast
LmMQ140012	Clinical	CC101	11	1/2a	Absent	0.0143	0.0261	Fast
LmMQ140025	Clinical	CC1	1	4b	Absent	0.0134	0.0206	Slow
LmMQ140029	Clinical	CC7	11	1/2a	Absent	0.0142	0.0211	Fast
LmMQ140030	Clinical	CC4	1	4b	Absent	0.0081	0.0171	Slow
LmMQ140031	Clinical	CC1	1	4b	Absent	0.0104	0.0162	Slow
LmMQ140032	Clinical	CC90	11	1/2a	Absent	0.0140	0.0237	Fast
LmMQ140033	Clinical	CC1	1	4b	Absent	0.0144	0.0269	Fast
LmMQ140034	Clinical	CC121	11	1/2a	Absent	0.0139	0.0206	Fast
LmMQ140035	Clinical	CC121	11	1/2a	Absent	0.0079	0.0184	Slow
LmMQ150001	Clinical	CC37	11	1/2a	Absent	0.0146	0.0235	Fast
LmMQ150004	Clinical	CC54	1	4b	Absent	0.0123	0.0159	Slow
LmMQ150005	Clinical	CC6	1	4b	Absent	0.0123	0.0145	Slow
LmMQ150007	Clinical	CC101	11	1/2a	Absent	0.0125	0.0202	Slow
LmMQ150008	Clinical	CC101	11	1/2a	Present	0.0119	0.0205	Slow

LmMQ150011	Clinical	CC20	II	1/2a	Present	0.0129	0.0211	Slow
LmMQ150012	Clinical	CC6	I	4b	Absent	0.0119	0.0157	Slow
LmMQ150013	Clinical	CC2	I	4b	Absent	0.0140	0.0164	Slow

Supplementary Figure S1. Rapid Alert System for Food and Feed (RASFF) food notifications in the EU for *L. Monocytogenes* from September 2020-March 2022 (available at <https://webgate.ec.europa.eu/rasff-window/screen/search>).



References

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