

Supplementary Table 1. Summary of subtyping results for the 71 *L. monocytogenes* isolates analyzed in the present study

NML ^a Isolate ID Number	Estimated Isolation Date	Province	Source	Serotype	PFGE/ <i>AscI</i>	PFGE/ <i>Apal</i>	PCR Results ^b		MLST ST	MVLST ST (VT ^c)	Prophage Type (PT) ^d
							LGI1 ^e Marker	ECV marker			
88-0478	6/9/1988	ON	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
88-1059	12/21/1988	NL	blood	3a	LMACI.0001	LMAAI.0001	+	+	120	59	4
95-0093	4/12/1995	AB	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
96-0218	9/19/1996	BC	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
96-0247	11/7/1996	AB	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
06-6837	6/27/1997	QC	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
06-6840	7/29/1997	QC	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
97-1636	12/4/1997	SK	blood	1/2a	LMACI.0001	LMAAI.0003	+	+	292	59	4
98-0291	2/20/1998	ON	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	292	59	4
98-2035	10/1/1998	ON	blood	1/2a	LMACI.0040	LMAAI.0003	+	+	292	59	4
06-6863	10/26/1998	QC	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
99-3048	5/31/1999	ON	blood	1/2a	LMACI.0001	LMAAI.0003	+	+	292	59	4
99-3046	5/31/1999	ON	blood	1/2a	LMACI.0002	LMAAI.0001	-	+	120	59	4
99-6370	11/9/1999	ON	blood	1/2a	LMACI.0040	LMAAI.0003	+	+	292	59	4
99-6871	12/8/1999	NL	clinical	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
00-1149	3/15/2000	QC	clinical	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
00-5136	9/21/2000	ON	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	292	59	4
01-1280	3/1/2001	ON	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	292	59	4
01-1465	3/14/2001	AB	blood	1/2a	LMACI.0096	LMAAI.0001	+	+	120	59	4
01-1468	3/14/2001	NL	brain tissue	1/2a	LMACI.0098	LMAAI.0001	+	+	120	59	4
01-2417	4/26/2001	BC	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
01-3506	6/1/2001	ON	CSF	1/2a	LMACI.0001	LMAAI.0003	+	+	120	59	4
01-5252	8/3/2001	MB	blood	1/2a	LMACI.0001	LMAAI.0003	+	+	387	59	4
01-5373	8/16/2001	ON	blood	1/2a	LMACI.0002	LMAAI.0001	-	+	120	59	4
01-5991	9/5/2001	AB	RTE turkey	1/2a	LMACI.0128	LMAAI.0001	-	+	120	59	4
01-6771	9/27/2001	ON	clinical	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
01-7107	10/18/2001	BC	blood	1/2a	LMACI.0122	LMAAI.0003	-	+	120	59	4
01-7210	10/23/2001	BC	liverwurst sausage	1/2a	LMACI.0040	LMAAI.0001	+	+	120	59	4
02-5993	9/19/2002	ON	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
03-0402	1/23/2003	AB	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
03-5473	8/19/2003	ON	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
03-7262	10/10/2003	NS	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
04-5457	9/9/2004	ON	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	292	59	4
07-6082	10/3/2007	NS	blood	1/2a	LMACI.0040	LMAAI.0001	+	+	120	59	4
10-0814	2008	ON	RTE meat	1/2a	LMACI.0001	LMAAI.0001	+	+	292	59	4
10-0815	2008	SK	RTE meat	1/2a	LMACI.0040	LMAAI.0001	+	+	292	59	4
08-5375	8/1/2008	ON	blood	1/2a	LMACI.0002	LMAAI.0214	-	+	120	59	4
08-5578	8/8/2008	ON	blood	1/2a	LMACI.0040	LMAAI.0001	+	+	292	59	4
08-5923	8/25/2008	ON	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4

08-6056	8/28/2008	ON	turkey meat	1/2a	LMACI.0040	LMAAI.0003	+	+	292	59	4
08-6337	9/8/2008	ON	blood	1/2a	LMACI.0040	LMAAI.0003	+	+	292	59	4
08-6569	9/15/2008	ON	food processing environment	1/2a	LMACI.0040	LMAAI.0001	+	+	292	59	4
08-6997	9/24/2008	ON	blood	1/2a	LMACI.0040	LMAAI.0003	+	+	292	59	4
08-7374	10/16/2008	ON	food processing environment	1/2a	LMACI.0001	LMAAI.0001	+	+	292	59	4
08-7669	10/24/2008	SK	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
10-0819	2/3/2010	ON	blood	1/2a	LMACI.0618	LMAAI.0003	-	+	8	59	12 ^c
10-1046	2/15/2010	ON	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
10-5024	3/16/2010	ON	prosciutto cooked ham	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
10-2174	4/6/2010	BC	blood	1/2a	LMACI.0001	LMAAI.0001	+	+	120	59	4
10-0809	1981	NS	clinical	4b	LMACI.0160	LMAAI.0449	-	-	1	20 (ECI)	NA ^f
81-0558	6/1/1981	NS	CSF	4b	LMACI.0107	LMAAI.0449	-	-	1	20 (ECI)	NA
81-0861	7/1/1981	NS	coleslaw	4b	LMACI.0648	LMAAI.0449	-	-	1	20 (ECI)	NA
10-0810	1996	ON	clinical	1/2b	LMACI.0046	LMAAI.0223	-	-	5	63	11
10-0811	1996	ON	imitation crab meat	1/2b	LMACI.0046	LMAAI.0223	-	-	5	63	11
98-0041	1/21/1998	ON	blood	1/2b	LMACI.0028	LMAAI.0023	-	-	5	63	NA
10-0813	2000	MB	clinical	1/2a	LMACI.0118	LMAAI.0005	-	-	7	56	13 ^c
10-0812	2000	MB	whipping cream	1/2a	LMACI.0118	LMAAI.0005	-	-	7	56	13 ^c
00-0346	1/27/2000	ON	peritoneal fluid	1/2a	LMACI.0007	LMAAI.0014	-	-	11	1 (ECIII)	3
06-6909	10/9/2001	QC	blood	1/2a	LMACI.0033	LMAAI.0122	-	-	7	56	10 ^c
06-6914	11/20/2001	QC	CSF	1/2a	LMACI.0203	LMAAI.0322	-	+	390	65	15
10-4754	2002	QC	clinical	1/2a	LMACI.0616	LMAAI.0818	-	-	405	61	NA
10-4758	2002	QC	cheese	1/2a	LMACI.0616	LMAAI.0818	-	-	405	61	NA
02-1115	2/15/2002	ON	CSF	4b	LMACI.0023	LMAAI.0140	-	-	1	20 (ECI)	NA
06-6934	5/16/2002	QC	blood	1/2a	LMACI.0004	LMAAI.0013	-	-	321	60	NA
02-4056	7/4/2002	ON	blood	1/2a	LMACI.0015	LMAAI.0024	-	-	311	45	12 ^c
06-6956	10/28/2002	QC	blood	1/2a	LMACI.0044	LMAAI.0074	-	-	37	61	NA
04-5458	9/9/2004	ON	blood	4b	LMACI.0009	LMAAI.0234	-	-	217	62	NA
10-0933	2008	QC	blood	1/2a	LMACI.0149	LMAAI.0265	-	-	394	64	NA
10-0934	2008	QC	cheese	1/2a	LMACI.0149	LMAAI.0265	-	-	394	64	NA
08-5587	8/1/2008	ON	blood	1/2a	LMACI.0035	LMAAI.0414	-	-	380	66	16
10-5025	4/3/2009	ON	cooked bacon flakes	1/2c	LMACI.0036	LMAAI.0658	-	-	9	36	14

^a National Microbiology Laboratory of Canada

^b PCR detection of gene markers for *Listeria* Genomic Island 1 (LG11) (gene locus: LM5578_1886, hypothetical protein) and Epidemic Clone V (ECV) (gene locus: LM5578_2229, hypothetical protein)

^c Multi-virulence-locus sequence typing (MVLST) sequence types (Virulence Types, VTs) were assigned based on Chen et al. (8)

^d *comK* prophage junction fragments were amplified and sequenced and Prophage Types (PTs) were assigned based on Verghese et al. (35)

^e Only the downstream junction fragment could be amplified in this isolate, so the Prophage Type was assigned based on this sequence alone

^f NA, not applicable as neither junction fragments could be amplified

^g All LG11 PCR results were confirmed by TaqMan® RT-PCR at the National Microbiology Laboratory of Canada

Supplementary Table 2. Oligonucleotide primer sequences and amplicon size of molecular markers for ECV, LGI1 and upstream and downstream *comK* prophage junction fragments.

Primers	Primer Sequence (5' to 3')	Amplicon Size	Reference
ECV multiplex marker (gene locus: LM5578_2229, hypothetical protein)			
2229_F	TTGTTGAAGGAAGAGGTGGTC	~191	This study
2229_R	TCTTTTCGGCTCATTTTCGT		
ECV complete LM5578_2229 gene plus flanking regions			
2228_30F	CTGGTGTTCCTCCTTTGTT	~982	This study
2228_30R	AGCACAGGGTTCCTTTGACA		
LGI1 marker (gene locus: LM5578_1886, hypothetical protein)			
1886_F	TAACGACAACACTATGCCAACG	~196	This study
1886_R	CGACAGTTTGTATTCCACCA		
Upstream Junction fragment			
Can_F	TCCGCTTTGTTTCCTATTATCG	~900	This study
Can_R	TATGTCGTGCCTGTCCACAT		
Downstream Junction fragment			
Int76_F	TCTCGCATGGGTAAAAATCC	~1178	This study
Rldna_R	AAAATCGGGACAACCTGCATC		

Supplementary Table 3. DNA sequences of the virulence-gene fragments were deposited in GenBank under accession numbers JQ436380 through JQ436451 (*prfA*); JQ436164 through JQ436235 (*inlB*); JQ429661 through JQ429732 (*dal*); JQ436308 through JQ436379 (*lisR*); JQ436236 through JQ436307 (*inlC*); JQ429589 through JQ429660 (*clpP*); JQ436452 through JQ436477 (upstream *comK* prophage junction fragment); and JQ436121 through JQ436163 (downstream *comK* prophage junction fragment).

NML ^a Isolate ID Number	<i>clpP</i>	<i>dal</i>	<i>inlB</i>	<i>inlC</i>	<i>lisR</i>	<i>prfA</i>	Upstream fragment	Downstream fragment
88-0478	JQ24606	JQ429681	JQ436183	JQ436264	JQ436333	JQ436396	JQ436474	JQ436140
88-1059	JQ24614	JQ429674	JQ436174	JQ436267	JQ436319	JQ436406	JQ436461	JQ436129
95-0093	JQ24612	JQ429686	JQ436180	JQ436266	JQ436320	JQ436410	JQ436465	JQ436134
96-0218	JQ24603	JQ429688	JQ436185	JQ436260	JQ436323	JQ436407	JQ436459	JQ436127
96-0247	JQ24609	JQ429679	JQ436184	JQ436262	JQ436330	JQ436408	JQ436453	JQ436126
06-6837	JQ24645	JQ429724	JQ436215	JQ436298	JQ436369	JQ436436		
06-6840	JQ24646	JQ429725	JQ436216	JQ436299	JQ436370	JQ436440		
97-1636	JQ24601	JQ429691	JQ436188	JQ436245	JQ436327	JQ436399	JQ436456	JQ436122
98-0291	JQ24653	JQ429732	JQ436224	JQ436306	JQ436378	JQ436427		
98-2035	JQ24623	JQ429708	JQ436231	JQ436284	JQ436355	JQ436448		JQ436160
06-6863	JQ24647	JQ429726	JQ436217	JQ436300	JQ436371	JQ436438		
99-3048	JQ24654	JQ429730	JQ436225	JQ436307	JQ436379	JQ436428		
99-3046	JQ24597	JQ429692	JQ436173	JQ436249	JQ436324	JQ436395	JQ436471	
99-6370	JQ24624	JQ429709	JQ436232	JQ436285	JQ436356	JQ436449		JQ436161
99-6871	JQ24599	JQ429683	JQ436172	JQ436258	JQ436329	JQ436390	JQ436468	JQ436131
00-1149	JQ24638	JQ429715	JQ436207	JQ436295	JQ436362	JQ436430		
00-5136	JQ24639	JQ429716	JQ436208	JQ436296	JQ436363	JQ436431		
01-1280	JQ24640	JQ429719	JQ436209	JQ436289	JQ436364	JQ436432		
01-1465	JQ24617	JQ429673	JQ436193	JQ436246	JQ436338	JQ436389	JQ436464	JQ436136
01-1468	JQ24613	JQ429682	JQ436181	JQ436252	JQ436318	JQ436399	JQ436454	JQ436121
01-2417	JQ24616	JQ429672	JQ436192	JQ436256	JQ436328	JQ436401	JQ436462	JQ436137
01-3506	JQ24641	JQ429720	JQ436210	JQ436290	JQ436365	JQ436433		
01-5252	JQ24610	JQ429680	JQ436176	JQ436265	JQ436339	JQ436394	JQ436469	JQ436141
01-5373	JQ24660	JQ429710	JQ436233	JQ436286	JQ436357	JQ436450		JQ436149
01-5991	JQ24605	JQ429676	JQ436191	JQ436253	JQ436321	JQ436403	JQ436457	JQ436138
01-6771	JQ24619	JQ429687	JQ436194	JQ436251	JQ436317	JQ436397	JQ436455	
01-7107	JQ24618	JQ429684	JQ436177	JQ436250	JQ436331	JQ436391	JQ436458	JQ436139
01-7210	JQ24604	JQ429675	JQ436186	JQ436257	JQ436326	JQ436400	JQ436466	JQ436128
02-5993	JQ24642	JQ429721	JQ436211	JQ436291	JQ436366	JQ436434		
03-0402	JQ24611	JQ42969	JQ436179	JQ436261	JQ436335	JQ436402	JQ436460	JQ436143
03-5473	JQ24644	JQ429722	JQ436212	JQ436292	JQ436367	JQ436434		
03-7262	JQ24615	JQ429677	JQ436175	JQ436247	JQ436334	JQ436405	JQ436476	JQ436135
04-5457	JQ24644	JQ429723	JQ436213	JQ436297	JQ436368	JQ436425		
07-6082	JQ24626	JQ429695	JQ436198	JQ436271	JQ436342	JQ436415		JQ436151
10-0814	JQ24633	JQ429701	JQ436204	JQ436277	JQ436348	JQ436421		JQ436156
10-0815	JQ24658	JQ429702	JQ436205	JQ436278	JQ436349	JQ436422		JQ436157

08-5375	JQ24600	JQ429670	JQ436187	JQ436254	JQ436322	JQ436404	JQ436467	JQ436124
08-5578	JQ24636	JQ429718	JQ436220	JQ436302	JQ436375	JQ436441		
08-5923	JQ24637	JQ429717	JQ436221	JQ436303	JQ436375	JQ436442		
08-6056	JQ24625	JQ429712	JQ436235	JQ436287	JQ436359	JQ436451		JQ436162
08-6337	JQ24651	JQ429729	JQ436222	JQ436304	JQ436376	JQ436443		
08-6569	JQ24627	JQ429696	JQ436199	JQ436272	JQ436343	JQ436416		JQ436152
08-6997	JQ24628	JQ429697	JQ436200	JQ436273	JQ436344	JQ436417		JQ436153
08-7374	JQ24652	JQ429731	JQ436223	JQ436305	JQ436377	JQ436444		
08-7669	JQ24629	JQ429698	JQ436201	JQ436274	JQ436345	JQ436418		JQ436154
10-0819	JQ42958 9	JQ429690	JQ436189	JQ436244	JQ436309	JQ436409		JQ436123
10-1046	JQ24657	JQ429704	JQ436227	JQ436280	JQ436351	JQ436424		JQ436158
10-5024	JQ24602	JQ429671	JQ436178	JQ436259	JQ436336	JQ436388	JQ436472	JQ436125
10-2174	JQ24598	JQ429689	JQ436195	JQ436263	JQ436332	JQ436392		JQ436130
10-0809	JQ24592	JQ429666	JQ436167	JQ436239	JQ436315	JQ436387		
81-0558	JQ24659	JQ429706	JQ436229	JQ436282	JQ436353	JQ436446		
81-0861	JQ24596	JQ429664	JQ436165	JQ436238	JQ436310	JQ436384		
10-0810	JQ24620	JQ429699	JQ436202	JQ436275	JQ436346	JQ436419		JQ436155
10-0811	JQ24594	JQ429667	JQ436166	JQ436237	JQ436312	JQ436386	JQ436477	JQ436148
98-0041	JQ24621	JQ429707	JQ436230	JQ436283	JQ436354	JQ436447		JQ436159
10-0813	JQ24630	JQ429700	JQ436203	JQ436276	JQ43637	JQ436420		JQ436147
10-0812	JQ24593	JQ429665	JQ436169	JQ436240	JQ436311	JQ436385		JQ436146
00-0346	JQ24635	JQ429714	JQ436206	JQ436294	JQ436360	JQ436429		
06-6909	JQ24648	JQ429727	JQ436218	JQ436301	JQ436372	JQ436439		
06-6914	JQ24608	JQ429678	JQ436182	JQ436255	JQ436337	JQ436411	JQ436475	JQ436144
10-4754	JQ24655	JQ429705	JQ436228	JQ436281	JQ436352	JQ436445		JQ436163
10-4758	JQ24656	JQ429663	JQ436170	JQ436241	JQ436314	JQ436382	JQ436452	
02-1115	JQ24631	JQ429711	JQ436234	JQ436268	JQ436358	JQ436412		
06-6934	JQ24649	JQ429728	JQ436219	JQ436293	JQ436373	JQ436440		
02-4056	JQ24622	JQ429695	JQ436196	JQ436269	JQ436340	JQ436413		JQ436150
06-6956	JQ24650	JQ429713	JQ436214	JQ436288	JQ436361	JQ436426		
04-5458	JQ24634	JQ429694	JQ436197	JQ436270	JQ436341	JQ436414		
10-0933	JQ24632	JQ429703	JQ436226	JQ436279	JQ436350	JQ436423		
10-0934	JQ24591	JQ429662	JQ436168	JQ436243	JQ436315	JQ436381		
08-5587	JQ24607	JQ429685	JQ436190	JQ436248	JQ436325	JQ436393	JQ436470	JQ436142
10-5025	JQ24595	JQ42968	JQ436171	JQ436242	JQ436313	JQ436383	JQ436473	JQ436145
J2-063	JQ24590	JQ429661	JQ436164	JQ436236	JQ436308	JQ436380		