

Materials List for:

# Loop-mediated Isothermal Amplification (LAMP) Assays for the Species-specific Detection of *Eimeria* that Infect Chickens

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## Materials

Name	Company	Catalog Number	Comments
RNAlater	Ambion	AM7024	
Ethanol	VWR Chemicals	20821.321	Caution, highly flammable
100 x Tris-EDTA (TE) buffer concentrate	Sigma-Aldrich	T9285	
Chelex 100 resin	Bio-Rad	142-1253	
Molecular grade water	Invitrogen	10977035	
<i>E. acervulina</i> F3	Sigma-Aldrich	VC00021	*CCTAACATTTTCGCTTCACGGAC
<i>E. acervulina</i> B3	Sigma-Aldrich	VC00021	*ATGAGCAAGTGGAAACACCTTG
<i>E. acervulina</i> FIP	Sigma-Aldrich	VC00021	*AGAGCACAGTGGCAGTGC-AGCAGACAGCATGGCTTACCT
<i>E. acervulina</i> BIP	Sigma-Aldrich	VC00021	*GAAGACCCTCTGAAGAACGGA-CCTTCTCACCGCTTACCGG
<i>E. acervulina</i> LB	Sigma-Aldrich	VC00021	*TAAGGTTACACCCGTGGAGG
<i>E. acervulina</i> LF	Sigma-Aldrich	VC00021	*GCCATGCACAAAGCGACTT
<i>E. brunetti</i> F3	Sigma-Aldrich	VC00021	*GGCCATCAAGTTCATGAGC
<i>E. brunetti</i> B3	Sigma-Aldrich	VC00021	*TCAACCTCCTGAGTGTGGTT
<i>E. brunetti</i> FIP	Sigma-Aldrich	VC00021	*GAAATGCCTTCGTAGCTGCT-GCTGGGTACGGAGCGTCTT
<i>E. brunetti</i> BIP	Sigma-Aldrich	VC00021	*TACTTCCTAGGATCCATCCTCGC-AGTTTCGCTGCCGCCTC
<i>E. brunetti</i> LB	Sigma-Aldrich	VC00021	*GAAACGCTCGAACATGGC
<i>E. brunetti</i> LF	Sigma-Aldrich	VC00021	*CTTCTCCACAGACCCAGAGGT
<i>E. maxima</i> F3	Sigma-Aldrich	VC00021	*ACTACGGAAAAGTGCCTAGCT
<i>E. maxima</i> B3	Sigma-Aldrich	VC00021	*CCTTCTCCCTTCTGAAAACCTG
<i>E. maxima</i> FIP	Sigma-Aldrich	VC00021	*GAGTCACTGCTGATGTACAAAAG-GAACTATGCCGCTTCCCTG
<i>E. maxima</i> BIP	Sigma-Aldrich	VC00021	*AGAATGCGGATTTGTTAGCAGC-AGCAAGTCCAAGGTGTGTGA
<i>E. maxima</i> LB	Sigma-Aldrich	VC00021	*CAAGCCTACGCGGACATC
<i>E. maxima</i> LF	Sigma-Aldrich	VC00021	*TTATGCAGCTGGGTCAACG
<i>E. mitis</i> F3	Sigma-Aldrich	VC00021	*ACGATAGCCAAGACACGTAAGG
<i>E. mitis</i> B3	Sigma-Aldrich	VC00021	*CCCCGTGATAAGAGTAGGAACA
<i>E. mitis</i> FIP	Sigma-Aldrich	VC00021	*CGCGGGTTCGTGAGATTTAAATTAT-GGAAGATCAGGACGGGCACT
<i>E. mitis</i> BIP	Sigma-Aldrich	VC00021	*GTTTCAGTTGATGAACAAGCGA

			GA-TGCGCCTCTAGAATCAAGACG
E. mitis LB	Sigma-Aldrich	VC00021	*TCCATGCATCCCCCTTGTT
E. mitis LF	Sigma-Aldrich	VC00021	*CGTGGGCACAGATTGATTC
E. necatrix F3	Sigma-Aldrich	VC00021	*TGGCTTTCCCGCGTACC
E. necatrix B3	Sigma-Aldrich	VC00021	*CGGCCAACACAAAGACTG
E. necatrix FIP	Sigma-Aldrich	VC00021	*CGCTTGAGTTTTAAGCTATGCA CA-GACCCAAGCAGCTCACCAA
E. necatrix BIP	Sigma-Aldrich	VC00021	*CGCCATGCCATTCAATGAACG- *GAGGCATACCGGCGTTGTC
E. necatrix LB	Sigma-Aldrich	VC00021	*GTCTGTAACCTGGGACGTTGT
E. necatrix LF	Sigma-Aldrich	VC00021	*GAACAGCCGGAGCCTCTC
E. praecox F3	Sigma-Aldrich	VC00021	*GCCCTTGATGTTGCTGTTTCT
E. praecox B3	Sigma-Aldrich	VC00021	*GCGCACGAATCTGAATCACAC
E. praecox FIP	Sigma-Aldrich	VC00021	*ATCTCCTCAAAGACTTTTCGCGT A-GCGCTTGGCTATATCCATAGG
E. praecox BIP	Sigma-Aldrich	VC00021	*GCTCTCGTGGCATACTTGC- GCCAGGAGCCACTGATTGT
E. praecox LB	Sigma-Aldrich	VC00021	*GAATAGCATTGCCAGGTGG
E. praecox LF	Sigma-Aldrich	VC00021	*GTCCACTGTCATTAATATTGC TGC
E. tenella F3	Sigma-Aldrich	VC00021	*GCTTGTGAAGGTCAGCGTG
E. tenella B3	Sigma-Aldrich	VC00021	*GCTGAGTCCATACGTACTTCTT
E. tenella FIP	Sigma-Aldrich	VC00021	*GCCACTGCTATGGAAAGTCAC AC-CATAACTGGCATGCAGGGGT
E. tenella BIP	Sigma-Aldrich	VC00021	*GTTTGGCCCGAAAGTTGTGAA GA- CGTCAGAAATTGCTGCCCAAT
E. tenella LB	Sigma-Aldrich	VC00021	*CGCATGTGCAGTTGAAGACA
E. tenella LF	Sigma-Aldrich	VC00021	*CCAAATGTATCTGCTAGTTATA TTAACAAG
10 x ThermoPol reaction buffer	New England Biolabs	B9004S	
MgSO <sub>4</sub>	Sigma-Aldrich	M7506	
dNTPs	Promega	U1330	
Betaine solution (5 M)	Sigma-Aldrich	B0300	
Bst polymerase	New England Biolabs	M0275S	
Hydroxynaphthol blue	Sigma-Aldrich	33936	Dissolved in molecular grade water.
UltraPure agarose	Invitrogen	16500-500	
10 x Tris/Borate/EDTA (TBE) buffer	Invitrogen	AM9863	
Blue/Orange DNA loading dye (x6)	Promega	G1881	
GeneRuler 1Kb DNA ladder	Thermo Scientific	SM0313	
SafeView nucleic acid stain	NBS Biologicals	NBS-SV	