

Supplementary Materials - The Loop-Mediated Isothermal Amplification for the Rapid Detection of Porphyromonas Gingivalis – Lenkowski et al.

Table S1. The sequences of LAMP primers.

Accession Number/Periopathogen	Primer		Length
*000205 T. forsythia	F3	GAACACCGTGAGGAATCTC	19
	B3	AACACGGCATAACATAATTCAATT	24
	FIP(F1c+F2)	GAATTCTTCCTCTTCCTTGCAGATGGTTAATTGTTATGCGTGGTAC	47
	BIP(B1c+B2)	AATTGTCAATGGTCAATGGTTATGCGATTGTCAATTGTCATACCAGGT	48
	LoopF	CCTCACGATGTTCCGGAATGA	20
	LoopB	TGGTTACACGCCGAATCAT	19
	F2	GGTTAATTGTTATGCGTGGTAC	22
	F1c	GAATTCTTCCTCTTCCTTGCAGAT	25
	B2	ATTGTCAATTGTCATACCAGGT	22
	B1c	AATTGTCAATGGTCAATGGTTATGCG	26
	Product		194
*000167 P. gingivalis	F3	CAACGAGCATTCCAGGAA	18
	B3	AAGTCCACGAGACCTACTT	19
	FIP(F1c+F2)	TCTTTGATCAATTCCATCGGGATACCTGCTATCGCTGAGTACGA	44
	BIP(B1c+B2)	CGGTGTGAATCTCTCTAATTGCGAATCGTACATTGCGAACCAA	43
	LoopF	GAACGGGTAGCGTACCAAA	19
	LoopB	AACTGACTCTTACTGGACACG	21
	F2	TGCTATCGCTGAGTACGA	18
	F1c	TCTTTGATCAATTCCATCGGGATACC	26
	B2	ATCGTACATTGCGAACCAA	19
	B1c	CGGTGTGAATCTCTCTAATTGCGA	24
	Product		250
*000204 F. nucleatum	F3	TGGTTCCAGAAGAAGAAATTAACA	23
	B3	AAACACCATCTACTTCAATTTCAA	24
	FIP(F1c+F2)	GGTCAGAACCAACTCCTACAAAATGGAAGCTACAAGAGAAGAA	43
	BIP(B1c+B2)	AAGATCAAGAAGGACAAGTTGCTGACTGGTGTCATTCTTCCAA	43
	LoopF	TAACCTCATACCATACACGAGGATC	25
	LoopB	AATTGATCATGAACATGGTAGAGTT	25
	F2	AATGGAAGCTACAAGAGAAGAA	22
	F1c	GGTCAGAACCAACTCCTACAA	21
	B2	CTGGTGTCATTCTTCCAA	18
	B1c	AAGATCAAGAAGGACAAGTTGCTGA	25
	Product		332

Table S2. The sequences of PCR primers.

Periopathogen	Primer			Length
Tanarella forsythia (BspA)	F3	Tan Fors-F	GAACACCGTGAGGAATCTC	
	B3	Tan Fors-R	AATTGAATTATGTTATGCCGTGTT	
	Amplicon			106bp
Fusobacterium nucleatum (NusG)	F3	FusNuc-F	AAACACCATCTACTTCAATTTCAA	
	B3	FusNuc-R	TTGAAATTGAAGTAGATGGTGTTT	
	Amplicon			197bp

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Porphyromonas gingivalis (Complete Genome Sequence)	F3	Porgin-F	CAACGAGCATTCCAGGAA	
	B3	Porgin-R	AGGTAGGTCTGTGGACTT	
	Amplicon			70bp

Table S3. The detailed reagents for LAMP.

Reagent	Volume	Concentration
Template	0.8 µl	
Isothermal Master Mix	6.0 µl	
FIP & BIP	0.8 µl	20 pmol (each)
F3 & B3	0.8 µl	5 pmol (each)
LoopF & LoopB	0.8 µl	10 pmol (each)
Water	0.8 µl	
	10.0 µl	

Table S4. The detailed reagents for PCR.

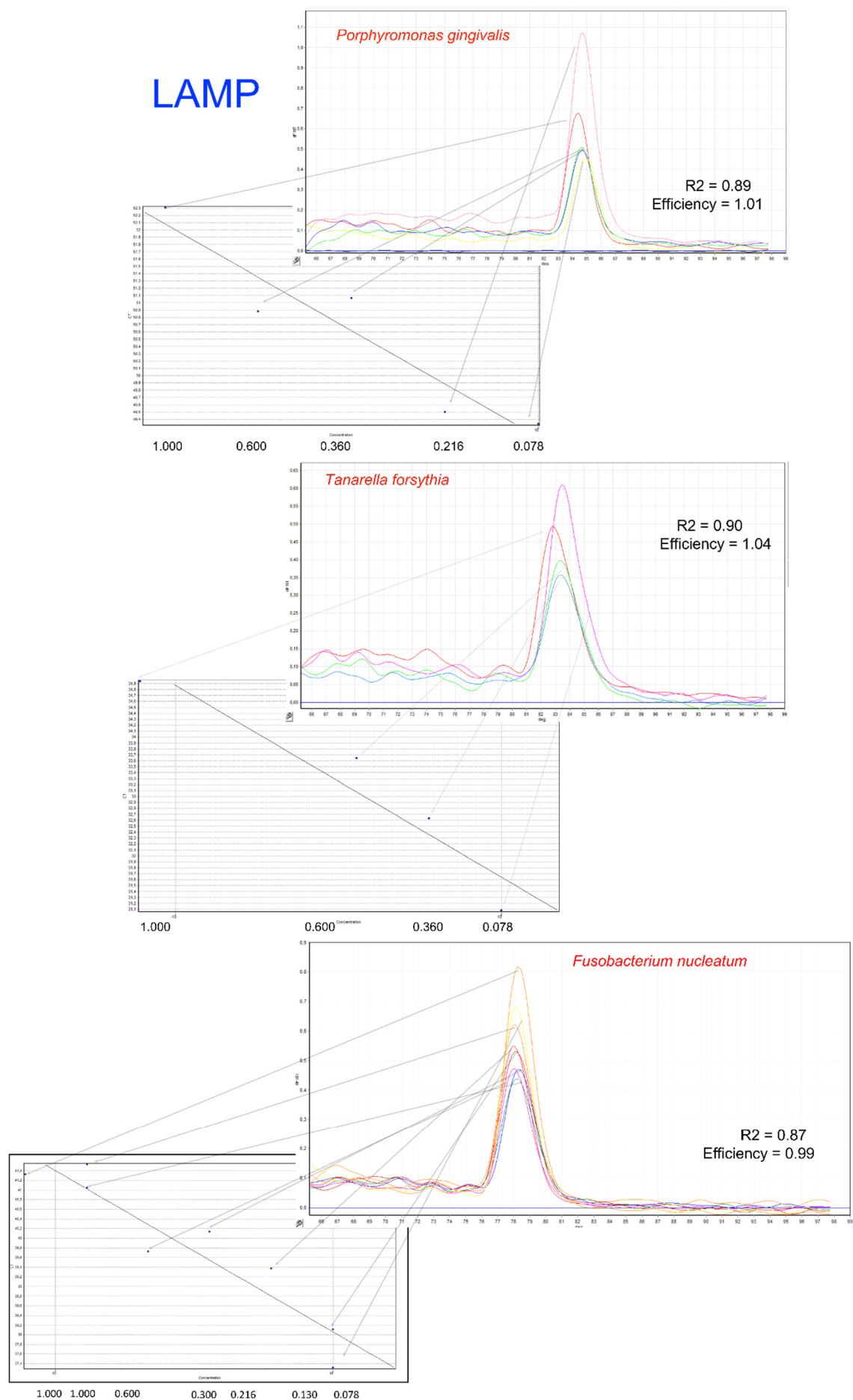
Reagent	Volume	Concentration
Template	1.0 µl	
Buffer 700 mM Tris-HCl	0.2 µl	
Allegro TAQ polymerase	0.2 µl	1 U
PCR starters	2.0 µl	0.1-1 µM
dNTP	0.8 µl	0.2 mM
Water	14.0 µl	
	20.0 µl	

Table S5. The detailed reagents for qPCR.

Reagent	Volume	Concentration
Template	0.5 µl	
2x QuantiFast SYBR Green PCR Master Mix	5.0 µl	
F3 & B3	1.0 µl	5 pmol (each)
Water	3.5 µl	
	10.0 µl	

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Figure S1. Fluorescent curves of LAMP.



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Figure S2. Fluorescent curves of qPCR.

