

Table 3. Primer sets specific for 16S and 18S rRNA, reaction temperature and reference strains

Kingdom	Phylum	Class	Taxonomy Order	Family	Genus	Species	Primer ID	Temp	Control sp.	Catalog	Frame	Forward	Reverse	Clonion									
Bacteria	Actinobacteria	Actinobacteria	Bifidobacteriales (2)		Bifidobacteriaceae (2)		Mammalia Bacteria	63	Ruminococcus productus	ATCC 7740D-5	UlrF340	ACTCTACGCGAGGCGACAGT	UlrR14	ATTACCGCGCTGTGGC	10								
								59	Bifidobacterium oryngim - infantis	ATCC 1687D-3	BifF 143	CTCTCGGAAAGGGTGGT	UlrR338	GCTGCTCCGATAGGAGT	10								
	Fusobacteria (12)	Bacteroidia	Bacteroidales (136)	Bacteroidaceae (15)	Bacteroides (45)		Bacteroidales	61	Bacteroides fragilis	ATCC 25265D	BactF265	GGTCTCTGAGAGGAGTCC	UlrR338	GOTGCTCCGATAGGAGT	10								
								Ermicutes	Bacilli (62)	Bacillales (18)	Bacillaceae (14)	Bacillus (15)	Bacilli	56	Lactobacillus acidophilus	ATCC 4357D-5	LactF362	AGCAGTAGGGAATCTTCCA	LactR877	CACCCTACTACA TEGAG	10		
	57.5	S. aureus	ATCC 700690D-5	g-StaphF	TTTGGGCTACACAGCTGCTACA	g-StaphR	AACAACITTTATGSGATTTGCM TGA							18									
	Fungi	Ascomycota	Eurotiomycetes	Eurotiiales	Trichocomaceae	Aspergillus	Aspergillus	Aspergillus	60	M. pneumoniae	ATCC 16531D	GPO-3	GGGAGCAACAGGATGATGATAC	GMSO	TECACCATCTGCTCACTCTGTTAACTC	22							
									Mollicutes	Mollicutes (42)	Mollicutes (42)	Mycoplasmataceae	Mycoplasma	Mollicutes	60	M. pneumoniae	ATCC 16531D	GPO-3	GGGAGCAACAGGATGATGATAC	GMSO	TECACCATCTGCTCACTCTGTTAACTC	22	
															67	Escherichia coli	ATCC 10798D-5	UlrF15F	GTGCCAGTGGCGCCGGTAA	EntR26R	GCTCAAGGGCAACACCTCCAG	10	
									Protobacteria (124)	Bacteroidetes (19)	Gemmatimonadetes (74)	Entomobacteriales (61)	Entomobacteriaceae	Escherichia	Protobacteria	67	Escherichia coli	ATCC 10798D-5	UlrF15F	GTGCCAGTGGCGCCGGTAA	EntR26R	GCTCAAGGGCAACACCTCCAG	10
																67	Escherichia coli	ATCC 10798D-5	UlrF15F	GTGCCAGTGGCGCCGGTAA	EntR26R	GCTCAAGGGCAACACCTCCAG	10
Fungi									Ascomycota	Saccharomycetes	Saccharomycetales	Saccharomycetaceae	Saccharomyces	Candida	57	C. albicans	ATCC 14633D	CandideF	TGGATCGATGAAAGACGACAGC	CandideR	TCCTTCCCGCTATTGATATGC	13	
															54	S. cerevisiae	ATCC 9783D	Sacc-F	ATTGCTGGCTTTTCAATG	Sacc-R	CGCTAGACGCTCTCTGTAT	15	
Fungi									Ascomycota	Eurotiomycetes	Eurotiiales	Trichocomaceae	Aspergillus	Aspergillus	55	A. flavus	ATCC 8643D-2	AspF	CTGTAGTGGGGAGTCAAAATC	AspR	AACAACCTGACCTTCGCGTGA	16	
															60	E. intestinalis	ATCC 50651	ProtF(V1)	CACCGATGATCTGCTGAC	ProtR(PMP-2)	CCTCCGGAAACAAACCCCTG	19, 20	
Archaea									Euryarchaeota (3)	Methanobacteria	Methanobacteriales	Methanobacteriaceae	Methanobacter	Methanobacter	57	M. smithii	Dr. Jeff Gordon	MsmithF	CCGGGTA TCTATCTCCGGTTC	MsmithR	CTCCCAAGGATAGGATGAAA	14	