

Universal 16S rRNA Archaea 787F-915P-1059R

qPCR mixture and conditions

Name	Sequence	Target (<i>E.coli</i>)	Reference
ARC787F	ATT AGA TAC CCS BGT AGT CC	787-806	Yu et al. 2005, B&B
ARC915P*	AGG AAT TGG CGG GGG AGC AC	915-934	"
ARC1059R	GCC ATG CAC CWC CTC	1044-1059	"

Reagent	Final conc.	1 tube (25 µL)	Plate (25 µL × 100)
PCR H ₂ O		1.6	160
ReadyMix (Sigma)	1X	12.5	1250
MgCl ₂ (25 mM)	4 mM	2.5**	250**
BSA (50 µg/µL) [‡]	0.8 µg/µL	0.4	40
787F (10 µM)	0.5 µM	1.25	125
1059R (10 µM)	0.5 µM	1.25	125
915P (10 µM)	0.2 µM	0.5	50
Template		5	5 × 100

* Probe must be dual-labelled with either 5'-6-FAM, 3'-BHQ1 or any other valid combination.

** ReadyMix already contains 1.5mM of MgCl₂ at final concentration.

[‡] Not essential.

Programme:

1. 95 °C – 5'
X35 {
2. 95 °C – 30"
3. 62 °C – 60" – take snapshot}