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 Yu, Y, Lee, C, Kim, J & Hwang, S (2005) Group-specific primer and probe sets to detect methanogenic communities using quantitative real-time polymerase chain reaction. *Biotechnology and Bioengineering* 89:670-679. [url:http://dx.doi.org/10.1002/bit.20347](http://dx.doi.org/10.1002/bit.20347)

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Protocol status: Working
 We use this protocol and it's working

Created: Feb 12, 2018

16S Bacteria 338F-516P-805R BSA

Forked from a private protocol

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ABSTRACT

Universal 16S rRNA Bacteria 338F-516P-805R

BAC338F ACT CCT ACG GGA GGC AG , target *E.coli* : 338-354, Yu et al. (2005), B&B
 BAC516P* TGC CAG CAG CCG CGG TAA TA, target *E.coli* : 516-536, '
 BAC805R GAC TAC CAG GGT ATC TAA TC , target *E.coli* : 785-805, '

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

ATTACHMENTS

[Introduction_QPCR_Strata](#) [AB_rt-QPCRguide.pdf](#)
[gene.pdf](#)

MATERIALS

MATERIALS

iQ™ SYBR® Green Supermix **BioRad Sciences Catalog #1708880**

QPCR mixture

1	Reagent	Final conc.	1 tube (20µl)	plate (20µl x 100)
	PCR H ₂ O		4.6	460
	iQ™ Supermix	1x	10	1000
	MgCl ₂ (25mM)	4.0 mM	0.8*	80*
	BSA (20µg/µl)	0.2 µg/µl	0.2	20
	338F (10µM)	0.5 µM	1.0	100
	805R (10µM)	0.5 µM	1.0	100
	516P (10µM) [†]	0.2 µM	0.4	40
	Template		2	2 x 100

* Buffer contains MgCl₂ at final conc. of 3.0 mM

Program

- 2
 1. 95°C – 5'
 2. **x 40** {
 - a. 95°C – 30"
 - b. 22°C – 60" take a snapshot