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

Forked from a private protocol

DOI

<https://dx.doi.org/10.17504/protocols.io.m7qc9mw>

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Manuscript citation:

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

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Protocol status: Working

We use this protocol and it's working

Created: February 12, 2018

Last Modified: September 01, 2020

Protocol Integer ID: 10192

Keywords: bacteria, rrna, bac805r, bac338f, bsa universal, act cct acg gga ggc ag

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_St...](#)

10.3MB



[AB_rt-QPCRguide.pdf](#)

1,011KB

Materials

MATERIALS

 iQ™ SYBR® Green Supermix **Bio-Rad Laboratories 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 × 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}