mcrA Methanocella

QPCR mixture and conditions

Name	Sequence	Target	Reference
mlas-mod F	GGY GGT GTM GGD TTC ACM		Modified from: Steinberg
	CAR TA		and Regan AEM 2008
mcrA-rev R	CGT TCA TBG CGT AGT TVG		Steinberg and Regan AEM
	GRT AGT		2008
mcell P	CTR GGC TTC TWC GGS TAC		Self designed
	GAY CT		

Reagent	Final conc.	1 tube	Plate
		(25 µL)	(25 μL × 100)
PCR H ₂ O		4.2	420
ReadyMix (Sigma)	1X	12.5	1250
MgCl ₂ (25 mM)	3.5 mM	2*	200*
BSA (50 μg/μL)	0.8 μg/μL	0.4	40
FITC (1:1000)		0.25	25
mlas F (25 μM)	0.25 μΜ	0.25	25
mcrA-rev R (25 μM)	0.25 μΜ	0.25	25
mcell P [†] (25 μM)	0.15 μΜ	0.15	15
Template		5	5 × 100

^{*}Buffer contains 1.5mM of MgCl₂ at final conc.

Programme:

- 1. 95°C –5'
 - X40 {
- 2. 95 °C 30"
- 3. 57°C-45"
- 4. $62 ^{\circ}C 30'' take snapshot$

[†] Probe must be dual-labelled either with 5′-6-FAM, 3′-BHQ1 or any other valid combination.