

Table S1. Probes used for FISH analysis of bacterial populations in samples from batch culture systems

Short name	Accession no.*	Full name†	Target species	Temperature		Sequence (5' to 3')	Reference
				Hybridisation	Washing		
Bif164	pB-00037	S-G- Bif- 0164- a-A-18	Most <i>Bifidobacterium</i> spp. and <i>Parascardovia denticolens</i>	50	50	CATCCGGCATTACCACCC	Langendijk et al., 1995
Lab158	ND	S-G- Lab- 0158- a-A-20	Most <i>Lactobacillus</i> , <i>Leuconostoc</i> and <i>Weissella</i> spp.; <i>Lactococcus lactis</i> ; all <i>Vagococcus</i> , <i>Enterococcus</i> , <i>Melisococcus</i> , <i>Tetragenococcus</i> , <i>Catelliococcus</i> , <i>Pediococcus</i> and <i>Paralactobacillus</i> spp.	50	50	GGTATTAGCAYCTGTTTCCA	Harmsen et al., 1999
Bac303	pB-00031	S-*- Bacto-	Most <i>Bacteroides sensu stricto</i> and	46	48	CCAATGTGGGGGACCTT	Manz et al., 1996

		0303-	<i>Prevotella</i> spp.; all					
		a-A-17	<i>Parabacteroides</i> ; <i>Barnesiella viscericola</i> and <i>Odoribacter</i> <i>splanchnicus</i>					
Chis150	pB-00962	S-*- Chis- 0150- a-A-23	Most members of <i>Clostridium</i> cluster I; all members of <i>Clostridium</i> cluster II; <i>Clostridium</i> <i>tyrobutyricum</i> ; <i>Adhaeribacter</i> <i>aquaticus</i> and <i>Flexibacter canadensis</i> (family <i>Flexibacteriaceae</i>); <i>[Eubacterium] combesii</i> (family <i>Propionibacteriaceae</i>)	50	50	TTATGCGGTATTAATCTYCCTTT	Franks et al., 1998	
Erec482	pB-00963	S-*- Erec- 0482-	Most members of <i>Clostridium</i> cluster XIVa; <i>Syntrophococcus</i>	50	50	GCTTCTTAGTCARGTACCG	Franks et al., 1998	

	a-A-19	<i>sucromutans</i> , [<i>Bacteroides</i>] <i>galacturonicus</i> and [<i>Bacteroides</i>] <i>xylanolyticus</i> , <i>Lachnospira</i> <i>pectinschiza</i> and <i>Clostridium</i> <i>saccharolyticum</i>				
Eub I		Most bacteria	46	48	GCTGCCTCCCGTAGGAGT	Harmsen
Eub II					GCTGCCACCCGTAGGTGT	et al.,
Eub III					GCAGCCACCCGTAGGTGT	1999

*ND, No information relating to these probes has been deposited in probeBase (<http://www.microbial-ecology.net/probebase>).

†Probe designation according to Alm et al. (1996). This information was retrieved from probeBase.

‡These probes were used together in equimolar concentrations (both at 50 ng μl^{-1}). Formamide (20 %) was included in the hybridization buffer.