Substrates	Products	Typical species	Gram reaction	Shape	Motility*	Remark
Proteins	Amino acids, sugars	*Clostridium sp.*	+	rod	M	Brewery yeast waste treatment
		Proteus vulgaris	–	rod	M	Directed evolution of a lipase
		Peptococcus sp.	–	rod	M	Fermentation of glutamic acid
		Bacteroides sp.	–	rod	N	Induction of cell populations in peripheral lymph
		Bacillus sp.	+	rod	M	Syntrophic culture with *Clostridium*
		Vibrio sp.	–	rod	M	Determine the effectiveness of freshly grown *vibrio spp*. for acute toxicity
Carbohydrates	Sugars	*Clostridium sp.*	+	rod	M	Palm oil mill effluent treatment
		Acetivibrio cellulolyiticus	–	rod	M	Degradation of cellulose to CH_4
		Staphylococcus sp.	+	sphere	N	Co-metabolism in the presence of glucose
		Bacteroides sp.	–	rod		
Lipids	Higher fatty acids, alcohols, amino acids					
		Clostridium sp.	+	rod	M	Food waste treatment
		Micrococcus sp.	+	sphere	N	Isolation of biosurfactants from *Micrococcus sp.*
	Sugars					
		Staphylococcus sp.	+	sphere	N	
RNA	Purines, pyrimidines					
DNA		*Bacillus sp.*	+	rod	M	

*M, motile; N, non-motile.