

Substrate	Product	Typical species	Temperature, °C	Gram reaction	Shape	Motility*
Butyrate	Acetate	<i>Syntrophobacter wolinii</i>	35–40	–	rod	N
	H ₂ /CO ₂ , Formate	<i>S. fumaroxidans</i>	35–40	–	rod	N
Propionate	H ₂ /CO ₂ , Formate	<i>Syntrophomonas wolfei</i>	35–40	–	rod	M
		<i>Pelotomaculum thermopropionicum</i>	50–60 [†]	+	rod	M
		<i>P. schinkii</i>	32–37	+	rod	M
	Butyrate, acetate	<i>Smithella propionica</i>	35–40	–	rod	M
H ₂ , CO ₂	Acetate	<i>Clostridium aceticum</i>	30–37	–	rod	M

*M, motile; N, non-motile.

[†]Thermophilic acetogens.