

**Supplementary Table S1:** Cellular fatty acid profiles (%) of strain 3b<sup>T</sup> and *Alkaliphilus hydrothermalis* FatMR1<sup>T</sup> (Ben Aissa *et al.*, 2015).

<b>Cellular fatty acid</b>	<b>Strain 3b<sup>T</sup></b>	<i>Alkaliphilus hydrothermalis</i>
C12:0	0.65	3.5
Iso-C13:0	-	1.6
C14:0	15.99	44.2
Anteiso-C15:0	-	0.2
Iso-C15:0	-	4.9
C16:0	21.84	14.3
Sum in feature 1 <sup>a</sup>	-	6.1
Sum in feature 3 <sup>a</sup>	31.67	9.0
Sum in feature 4 <sup>a</sup>	12.90	8.8

- Not Found

<sup>a</sup> Summed feature 1 consisted of C15:1H/C13:0, summed feature 3 consisted of C16:1w7c/C16:1 w6c, and summed feature 4 consisted of iso-C17:1/anteiso-C17:1.