

**Table S1. Physiological and biochemical characters of strain HF1**

Test	Reaction <sup>a</sup>
Gram stain	+
Voges-Proskauer (VP) test	+
Gelatin liquefaction	+
Methyl red test	–
Nitrate reductase	+
Starch hydrolysis	+
Protease	+
Chitinase	+
Sucrose fermentation	+
Xylose fermentation	–
Mannitol fermentation	–

<sup>a</sup> + and – represent positive and negative reactions, respectively. Data within each column are the means of three independent experiments.

**Table S2. Toxicity test of three pure compounds on *V. pyri***

Pure compounds	EC <sub>50</sub> (μL L <sup>-1</sup> )	Regression equation	Correlation coefficient
Hexanoic acid	6.65	y=2.9129+2.5357x	0.9872
Iberverin	0.30	y=7.2351+4.2403x	0.9416
2-Methylvaleraldehyde	74.07	y=-18.4226+12.5278x	0.9642

**Table S3. Primers used in this study**

Primer	Primer sequence (5'-3')	Gene
SR1	AAGGAGGTGATCCAGCCGCA	16S rDNA
SR2	AGAGTTTGATCCTGGCTCAG	
gyrA_F	CAGTCAGGAAATGCGTACGTCCTT	<i>gyrA</i>
gyrA_R	CAAGGTAATGCTCCAGGCATTGCT	
groEL-550f	GAGCTTGAAGTKGTTGAAGG	<i>groE</i>
groEL-1497r	TGAGCGGTWACTTTTGTWG	
ituD-F	ATGAACAATCTTGCCTTTTTA	<i>ituD</i>
ituD-R	TTATTTTAAAATCCGCAATT	
Sur-F	CGCGGMTACCGVATYGAGC	<i>srf</i>
Sur-R	ATBCCTTTBTWDGAATGTCCGCC	
Fen-F	GAATAYMTCGGMCGTMTKGA	<i>fen</i>
Fen-R	GCTTTWADKGAATSBCCGCC	