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Supplementary Information

Classification and Identification of Petroleum Microorganisms by MALDI-TOF Mass Spectrometry

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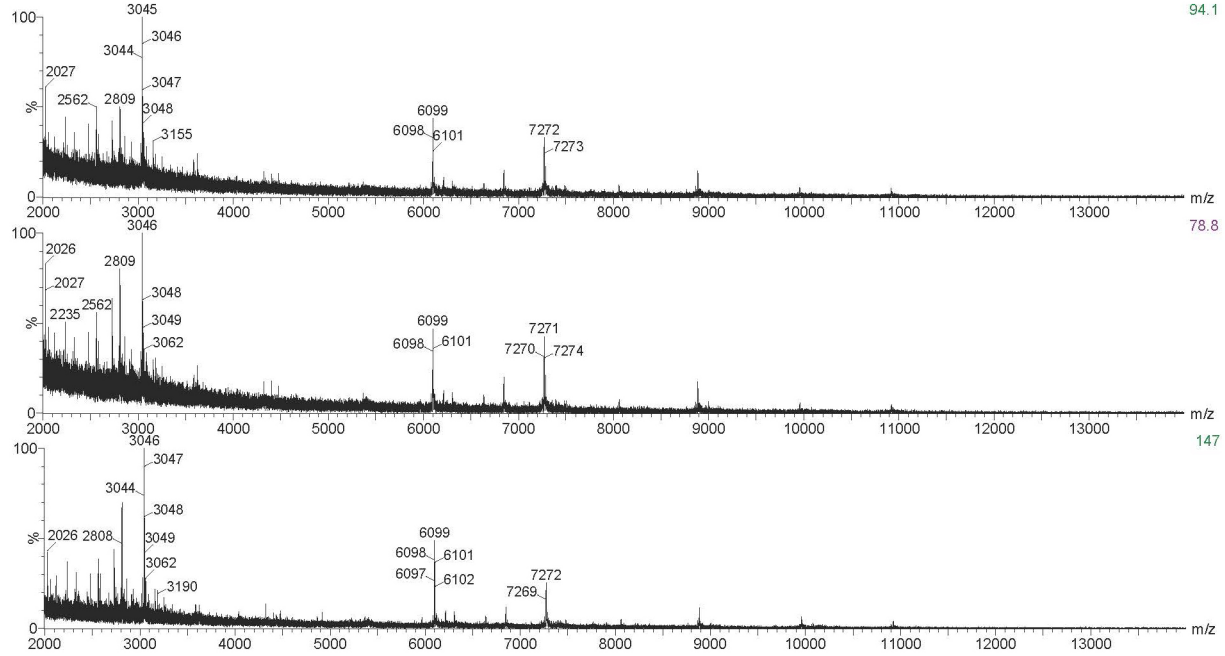

Figure S1. MALDI-TOF-MS mass spectra of cell extracts of *B. thuringiensis* (SG 12-1). The *m/z* ratios of the ions are shown on the x axis, which correspond to the masses of the single positively charged ions. The absolute intensities of the ions are shown on the top-right.

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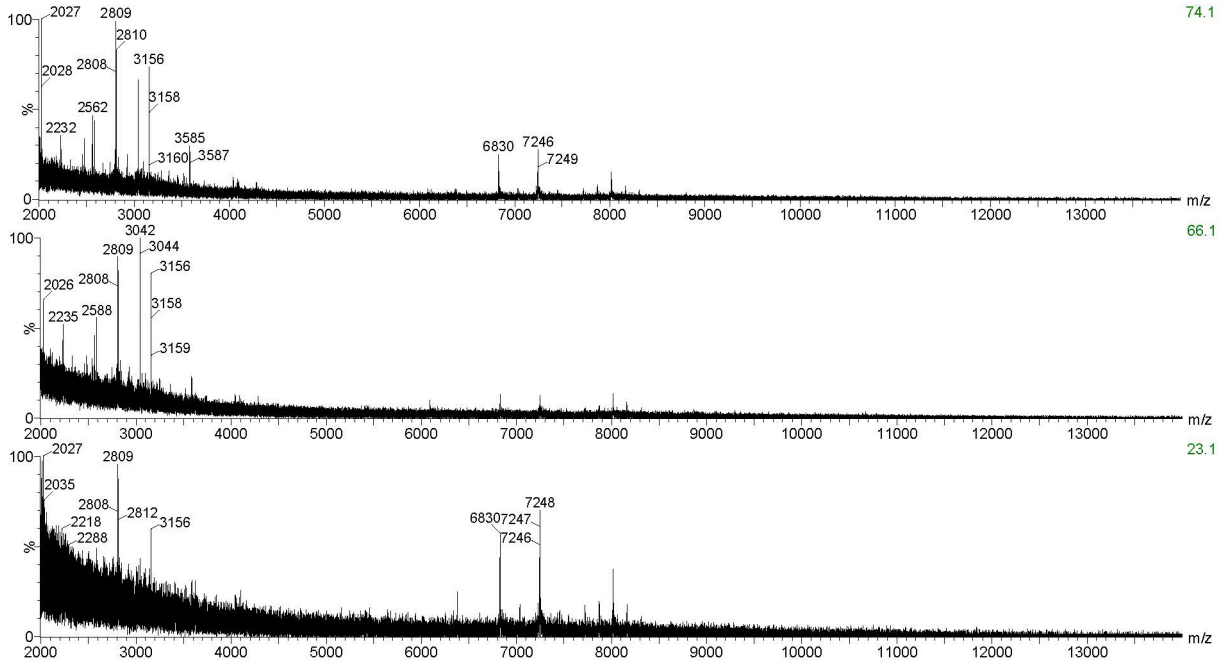

Figure S2. MALDI-TOF-MS mass spectra of cell extracts of *B. cereus* (SG 16). The *m/z* ratios of the ions are shown on the x axis, which correspond to the masses of the single positively charged ions. The absolute intensities of the ions are shown on the top-right.

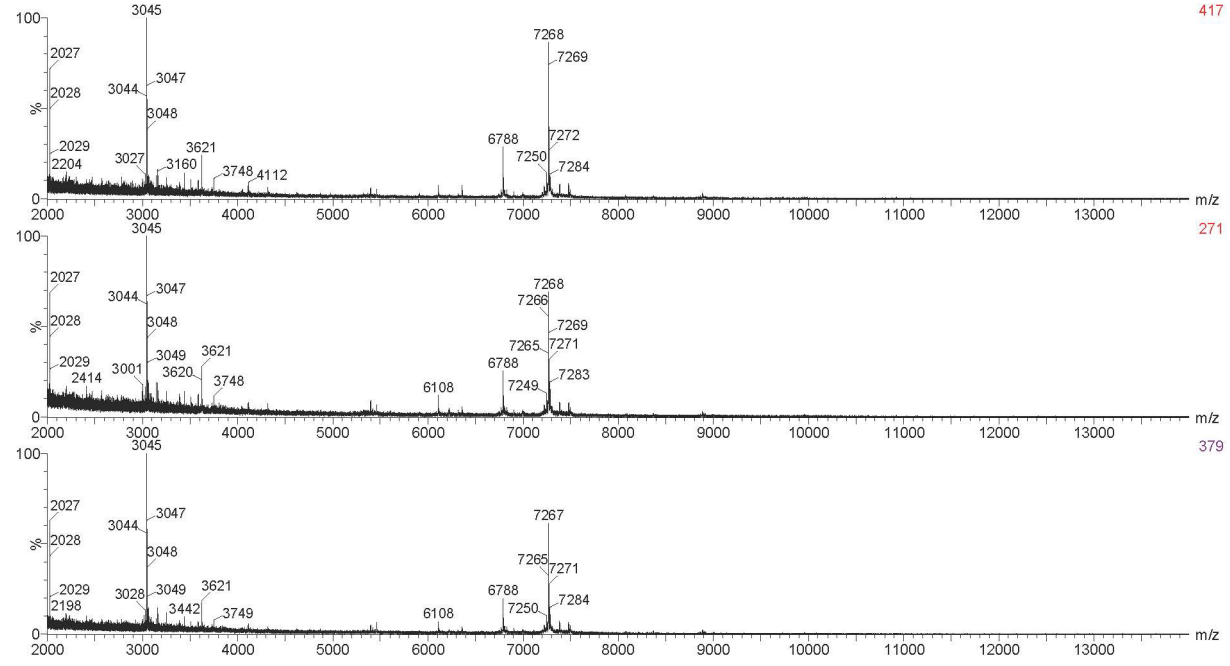

Figure S3. MALDI-TOF-MS mass spectra of cell extracts of *B. safensis* (SG 30). The *m/z* ratios of the ions are shown on the x axis, which correspond to the masses of the single positively charged ions. The absolute intensities of the ions are shown on the top-right.

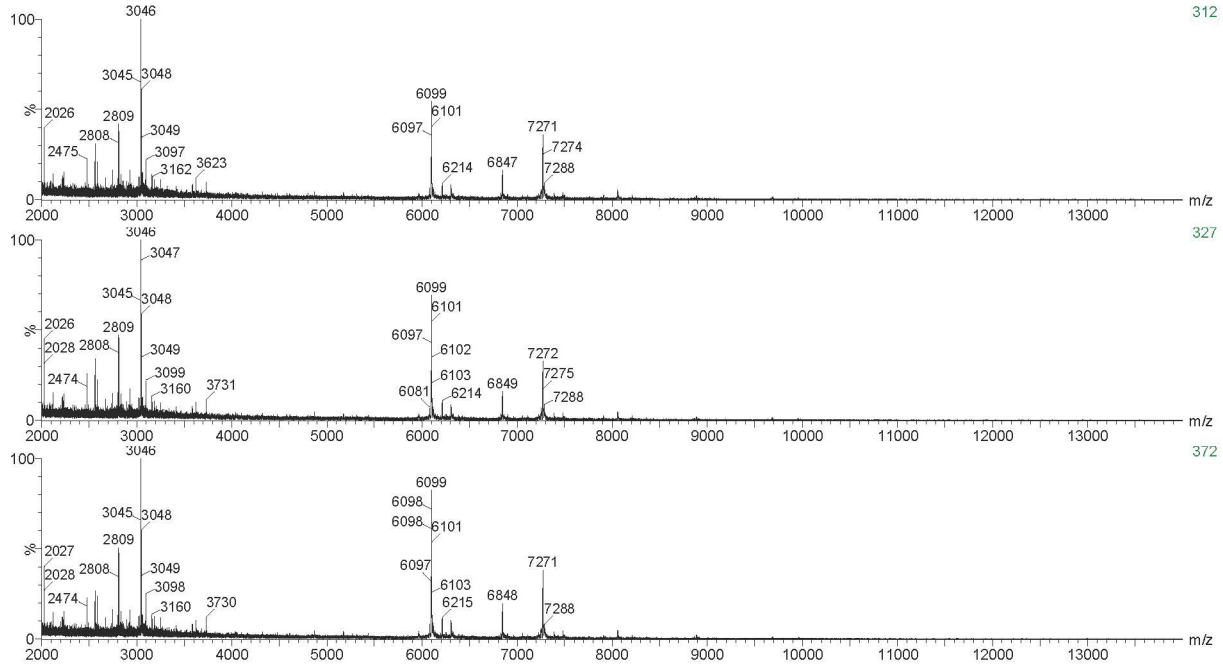

Figure S4. MALDI-TOF-MS mass spectra of cell extracts of *B. safensis* (SG 10). The *m/z* ratios of the ions are shown on the x axis, which correspond to the masses of the single positively charged ions. The absolute intensities of the ions are shown on the top-right.

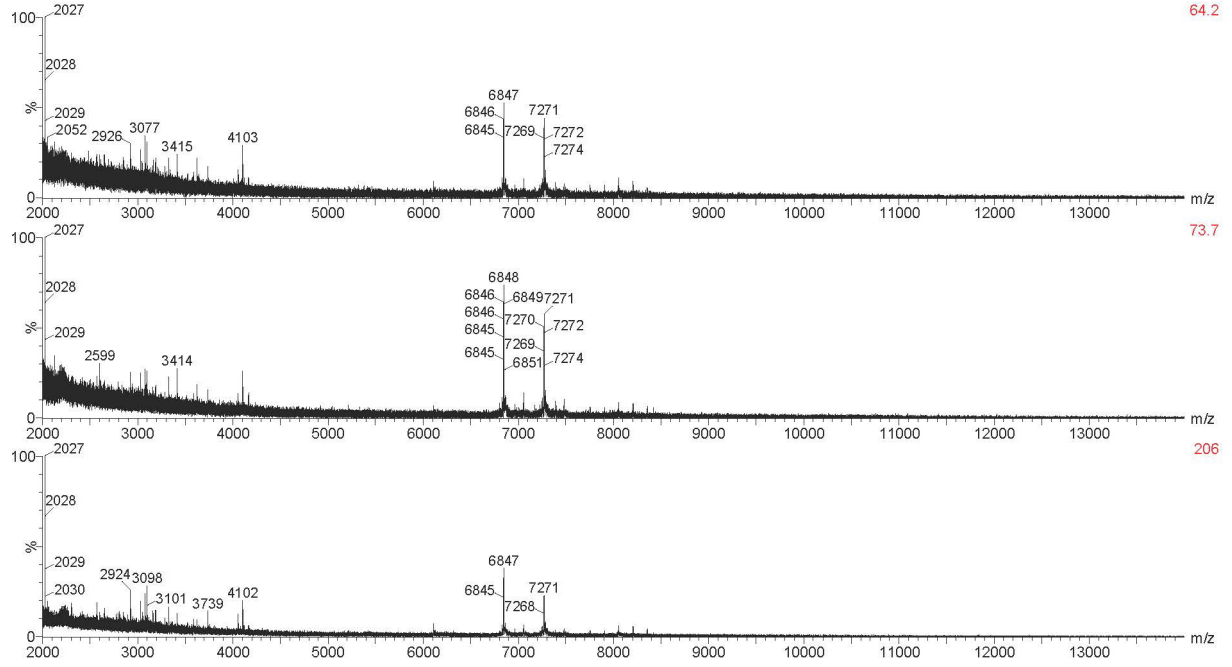

Figure S5. MALDI-TOF-MS mass spectra of cell extracts of *B. safensis* (SG 13). The *m/z* ratios of the ions are shown on the x axis, which correspond to the masses of the single positively charged ions. The absolute intensities of the ions are shown on the top-right.

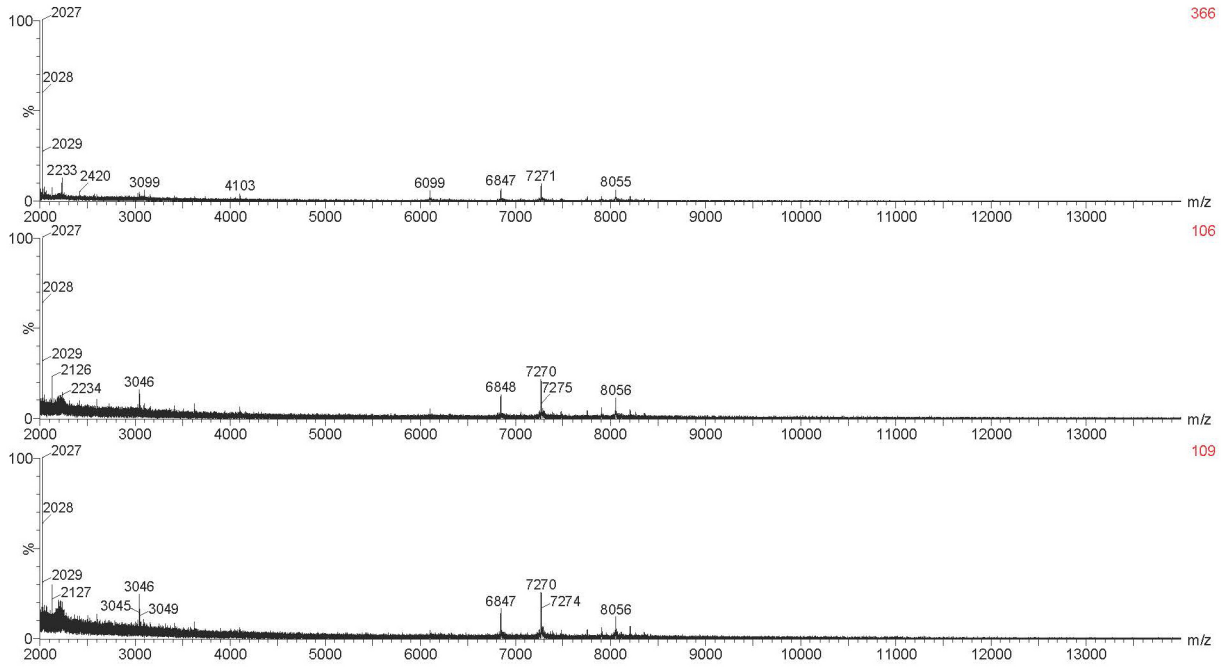

Figure S6. MALDI-TOF-MS mass spectra of cell extracts of *B. safensis* (SG 26). The *m/z* ratios of the ions are shown on the x axis, which correspond to the masses of the single positively charged ions. The absolute intensities of the ions are shown on the top-right.

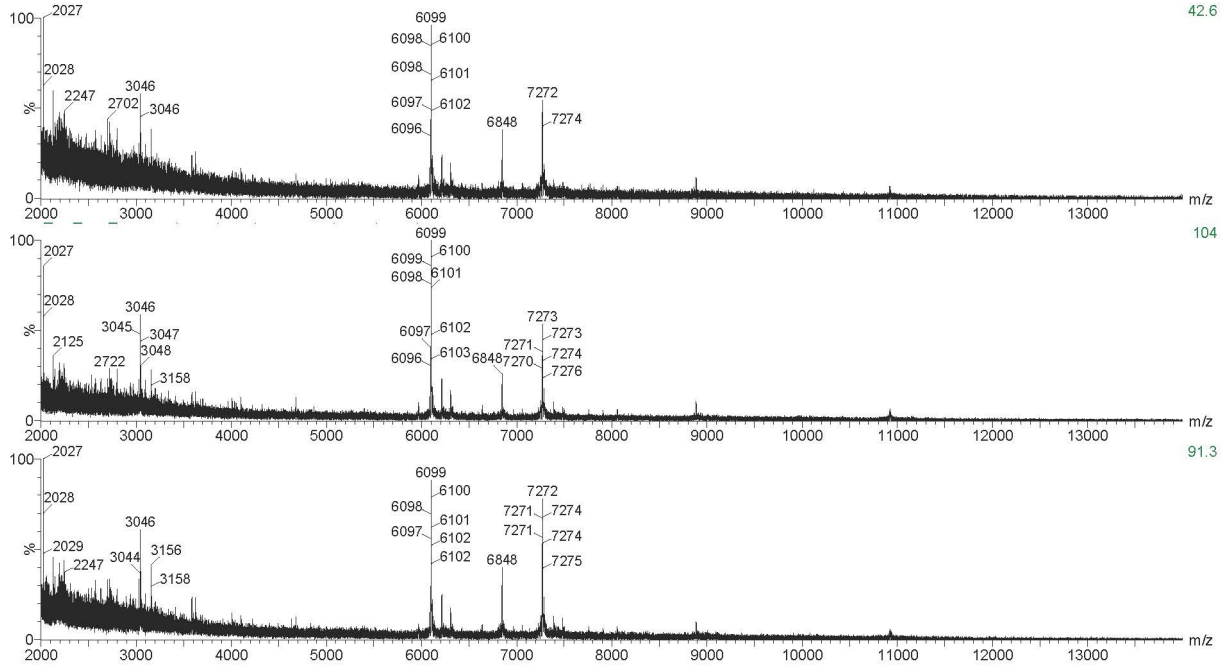

Figure S7. MALDI-TOF-MS mass spectra of cell extracts of *B. safensis* (SG 42-1). The *m/z* ratios of the ions are shown on the x axis, which correspond to the masses of the single positively charged ions. The absolute intensities of the ions are shown on the top-right.

Table S1. MALDI-MS data variance of 5 principal components, calibration errors and PCA validation

PCs	Variance	Percentage / %	Cumulative / %	Press Val
PC 1	68.616	42.88	42.87	110.88
PC 2	36.186	22.61	65.49	72.11
PC 3	14.670	9.16	74.65	61.52
PC 4	12.870	8.04	82.70	44.37
PC 5	7.960	4.97	87.67	39.37