Article

Isolation, Identification and Screening of Plastic-Degrading Microorganisms: Qualitative and Structural Effects on Poly(Butylene Succinate) (PBS) Films

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Table S1: Biochemical characterization for Gram staining, determination of spore production, catalase enzyme production, and methyl blue staining of the isolated strains.

Isolated strains	Cellular morphology	Gram staining	Spore production	Catalase	Reference
Bacillus sp. MORI88	Bacillus	+	+	+	[1]
Bacillus sp. SIE11	Bacillus	+	+	+	[1]
Bacillus sp. CHU22	Bacillus	+	+	+	[1]
Bacillus cereus CHU4R	Bacillus	UC	+	+	[1]
Bacillus sp. SIE4AN	Bacillus	+	+	+	[1]
Enterobacter hormaechei MORI66	Bacillus	-	N.S.P.	+	[2]
Acinetobacter sp. SIE33	Bacillus	-	N.S.P.	+	[3]
Acinetobacter sp. SIE22	Bacillus	-	N.S.P.	+	[3]
Acinetobacter baumannii MORI77	Bacillus	-	N.S.P.	+	[4]
Acinetobacter baumannii YUCAN	Bacillus	-	N.S.P.	+	[4]
Klebsiella sp. YUC99	Bacillus	-	N.S.P.	+	[5]
Klebsiella pneumoniae MORI33	Coccobacillus	-	N.S.P.	+	[3]
Pseudomonas sp. MORI22	Bacillus	-	N.S.P.	+	[6]
Pseudomonas otitidis YUC44	Bacillus	-	N.S.P.	+	[7]

+: positive result; -: negative result; UC: unstained cells; N.S.P.: non-spore producing strain.



Figure S1: Location of sampling areas for the collection of microbial consortia: a) Sierra Papacal Road, b) Chuburná Puerto, c) Yucalpetén.

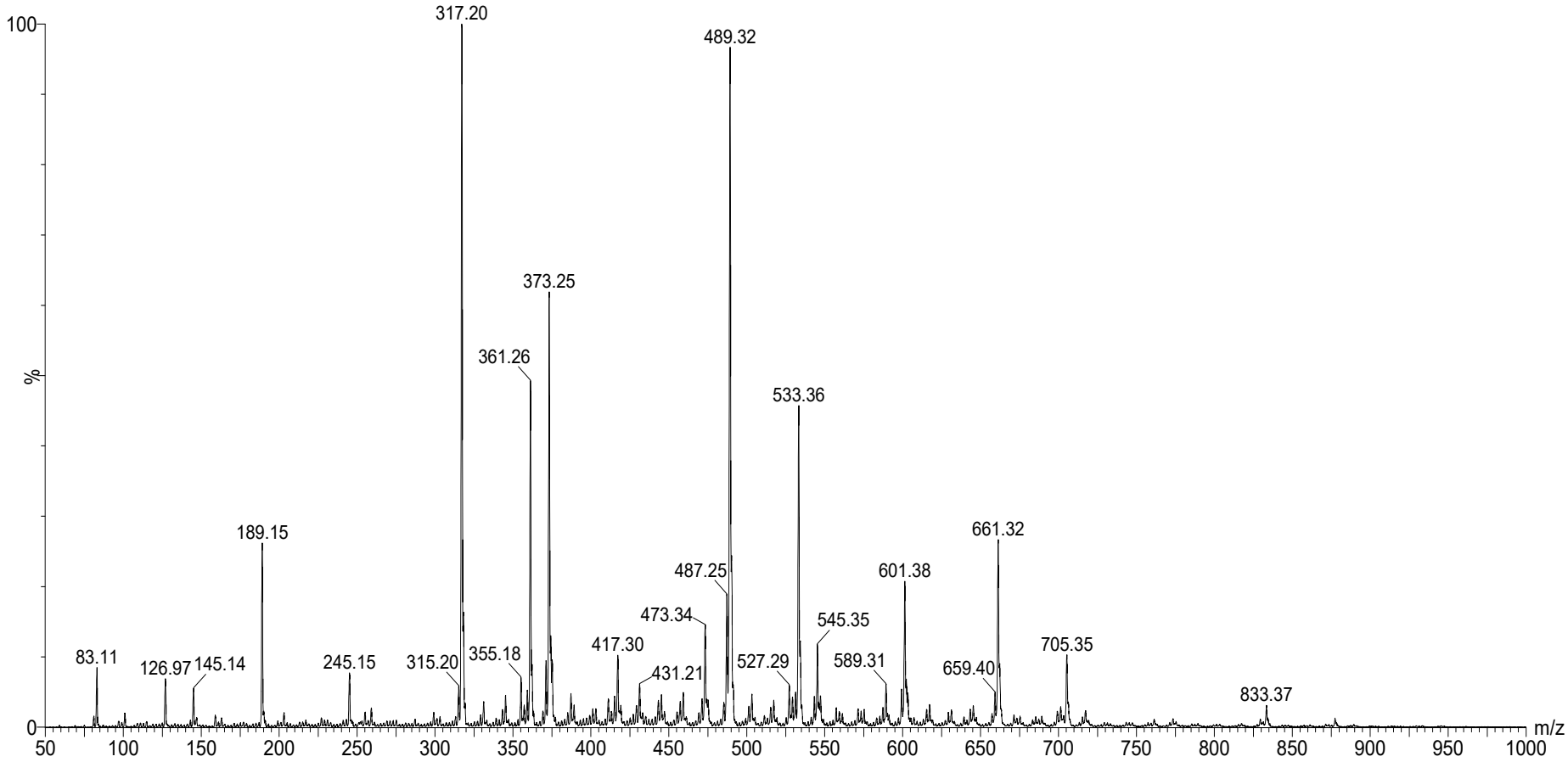

Figure S2: a) ASAP-MS spectrum obtained from minute 8 to 10 of PBS films treated with control after 21 weeks of treatment.

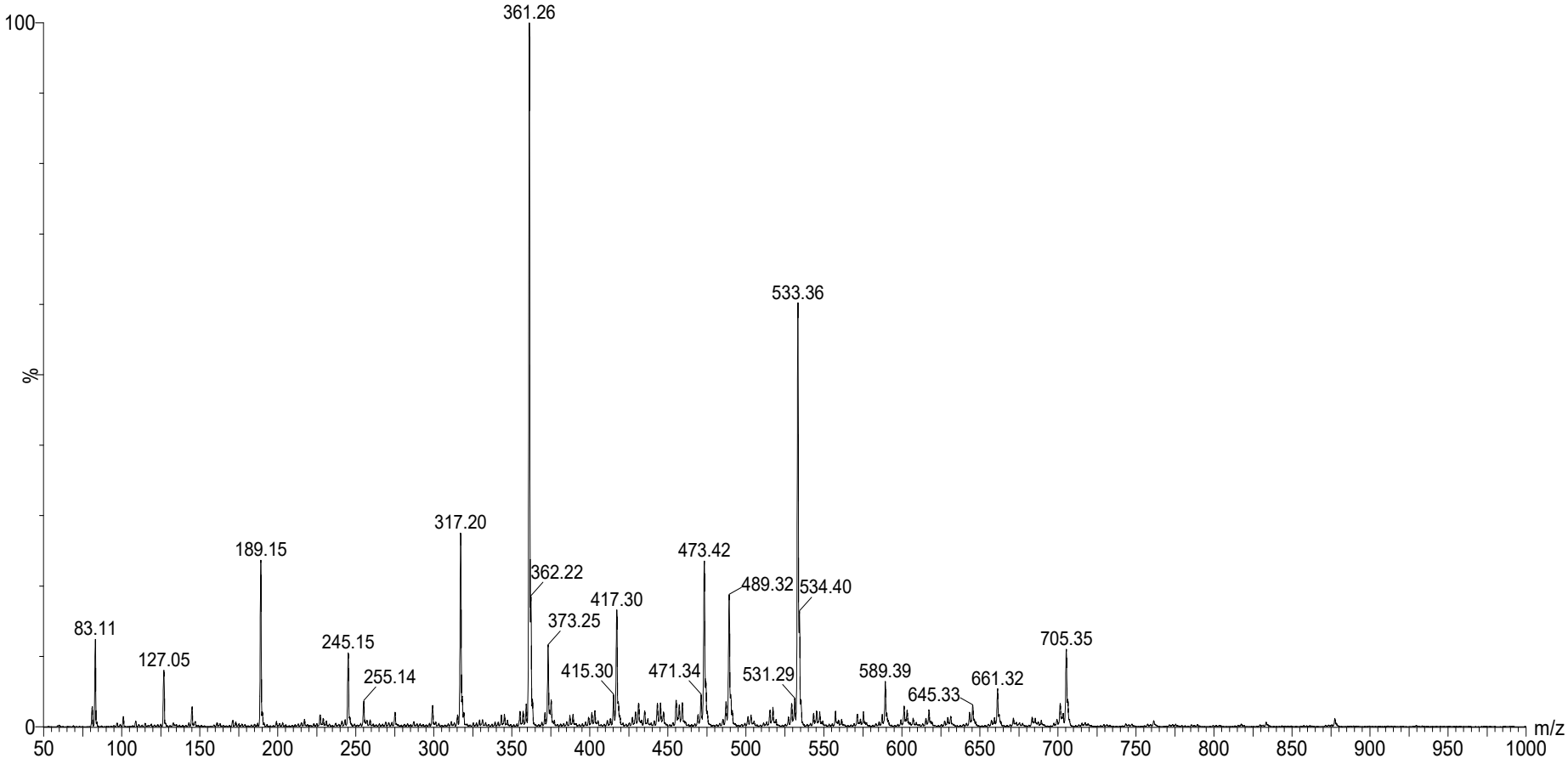

Figure S3: a) ASAP-MS spectrum obtained from minute 8 to 10 of PBS films treated with *B. cereus* CHU4R after 21 weeks.

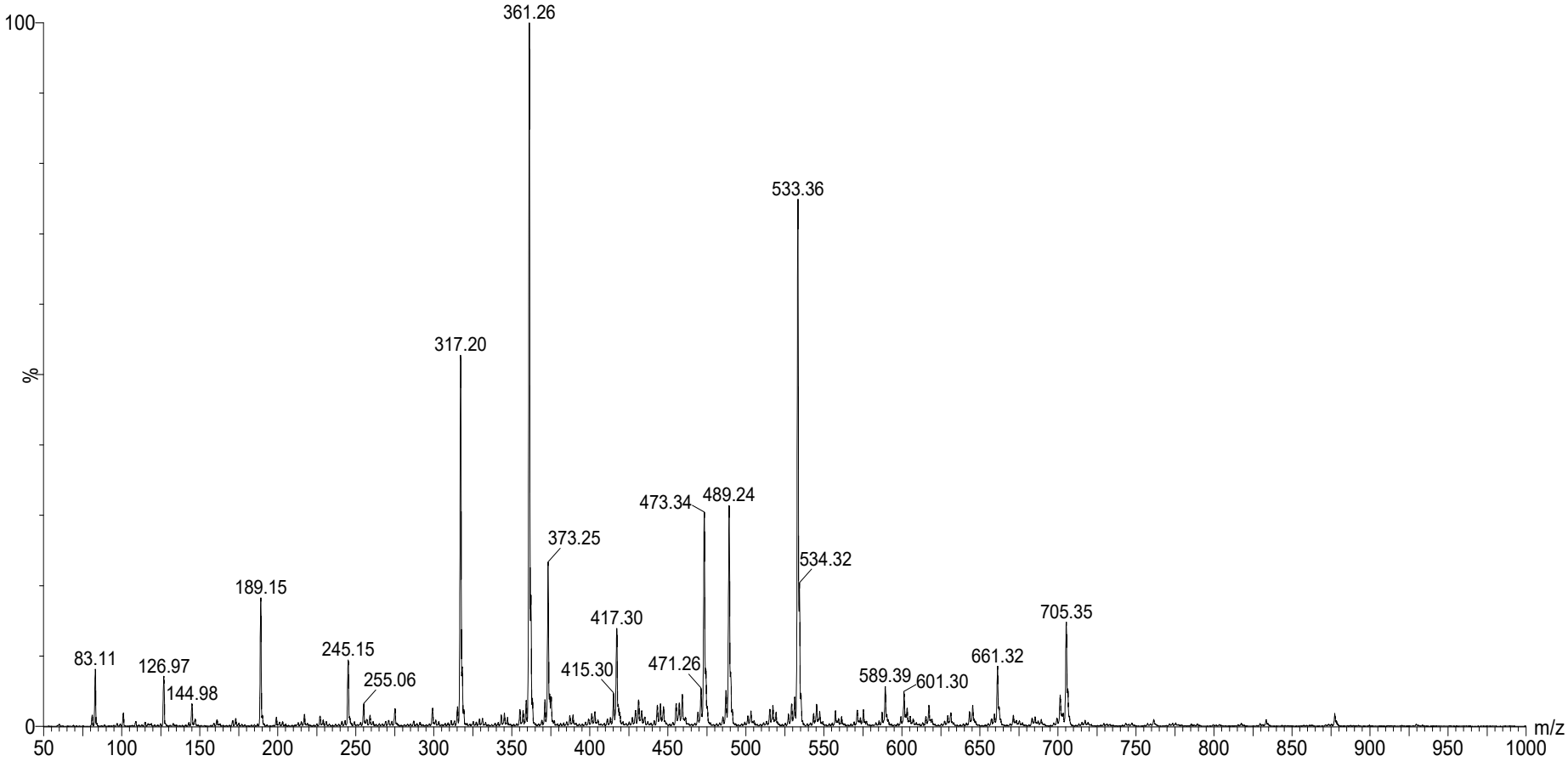

Figure S4: a) ASAP-MS spectrum obtained from minute 8 to 10 of PBS films treated with *P. otitidis* YUC44 after 21 weeks.

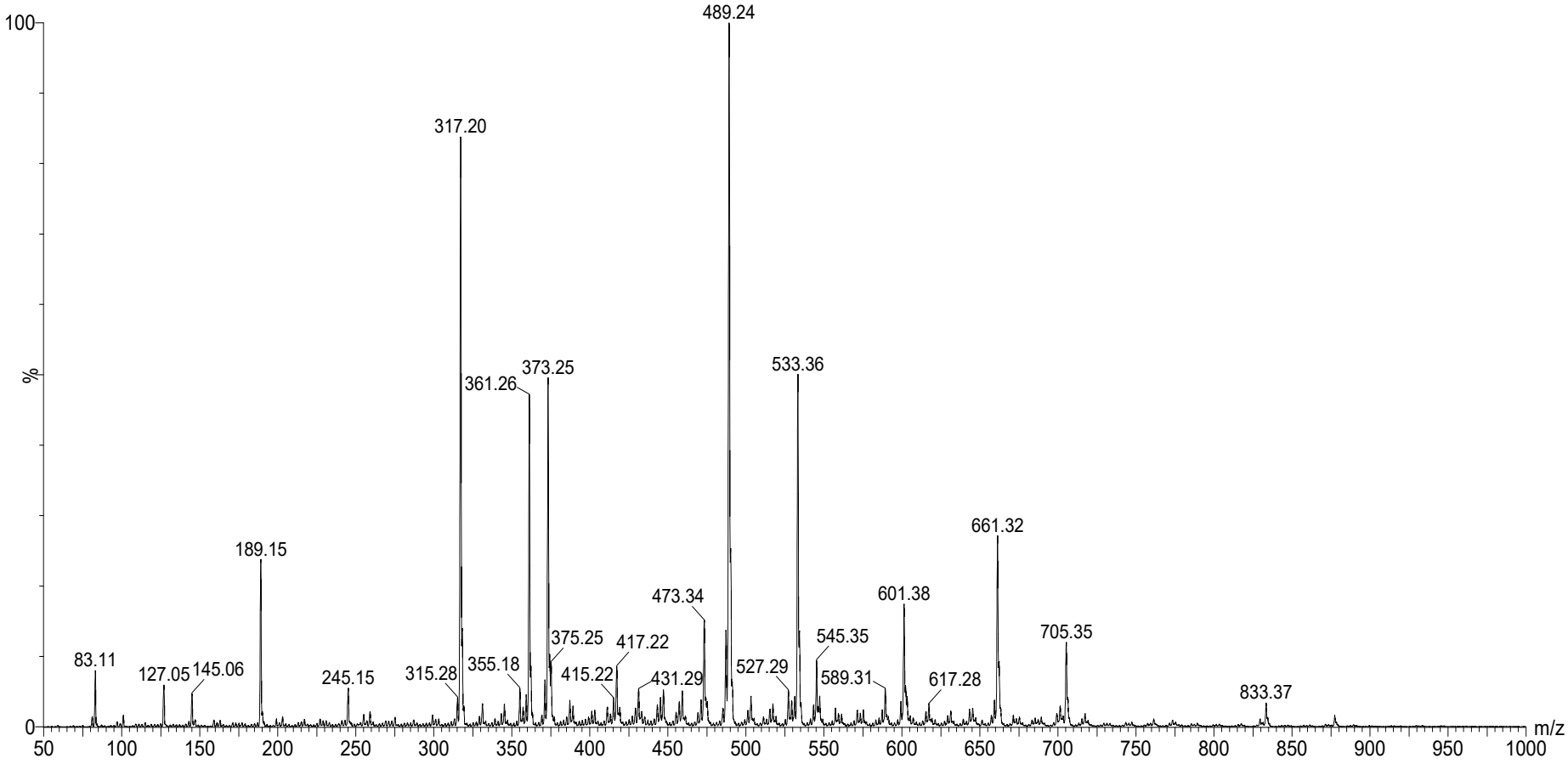

Figure S5: a) ASAP-MS spectrum obtained from minute 8 to 10 of PBS films treated with *A. baumannii* YUCAN after 21 weeks.

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