

Supplementary Table S1: Bacterial isolates showing results of Gram staining, appearance and growth in lignin and starch media.

S/N	Sample Name	Gram Test	Shape	Arrangement	Lignin	Starch
1	A1	+	Cocci	Clusters	+	+
2	A12	+	Cocci	Clusters	+	+
3	A15	+	Rod	Chains	+	+
4	A16	+	Cocci	Pairs	+	+
5	A18	+	Cocci	Chains	+	+
6	A3	-	Cocci	Clusters	+	-
7	A5B	-	Rod	Chains	+	+
8	A6	+	Cocci	Chains	+	+
9	A7	-	Cocci	Clusters	+	+
10	A8B	+	Rods	Clusters	+	+
11	A9	-	Rods	Pairs	+	+
12	A2	+	Cocci	Chains	+	+
13	A4	-	Cocci	Clusters	+	+
14	A10	-	Rods	Clusters	+	+
15	A11	-	Rods	Pairs	+	+
16	A13	+	Cocci	Chains	+	+
17	A17	+	Cocci	Clusters	+	+
18	A19	-	Cocci	Chains	+	+
19	A14	+	Cocci	Pairs	+	-
20	AB1	+	Cocci	Clusters	+	+
21	AB2	+	Cocci	Clusters	+	+
22	AB3	-	Cocci	Clusters	-	+
23	AB4	-	Rod	Chains	+	+
24	AB5	-	Cocci	Pairs	+	-
25	AB6	+	Cocci	Chains	+	-
26	AB7	+	Cocci	Clusters	+	+
27	AB8	-	Rod	Chains	+	+
28	AB9A	+	Cocci	Chains	+	+
29	AB9B	+	Cocci	Clusters	+	-
30	AB11	+	Rods	Clusters	+	+
31	AB12	+	Rods	Pairs	+	-
32	AB13	+	Cocci	Chains	-	+
33	AB14	+	Cocci	Clusters	+	-
34	AB15	+	Cocci	Clusters	+	-
35	AB16	+	Cocci	Clusters	+	+
36	AB17	+	Rod	Chains	+	-
37	AB18	+	Cocci	Clusters	+	+
38	BC1	-	Cocci	Clusters	+	-
39	BC2	-	Rod	Chains	+	+
40	BC3	+	Cocci	Pairs	+	+
41	BC4	+	Cocci	Chains	+	+
42	BC6	+	Cocci	Clusters	+	+
43	BC7	+	Rod	Chains	+	+
44	BC8	+	Cocci	Clusters	+	-
45	BC9	+	Cocci	Clusters	+	-
46	BC10	+	Rod	Chains	+	-

47	BC11	-	Cocci	Pairs	-	-
48	BC12	+	Cocci	Chains	+	-
49	BC13	+	Cocci	Clusters	+	-
50	BC14	+	Rod	Chains	+	-
51	BC15	-	Cocci	Chains	+	-
52	BC16	+	Cocci	Clusters	+	+
53	BC17	-	Rods	Clusters	+	+
54	BC18	-	Rods	Pairs	+	-
55	BD7	+	Cocci	Chains	+	-
56	BD11	+	Cocci	Clusters	+	+
57	BD20	+	Cocci	Clusters	+	-
58	BD6	+	Cocci	Clusters	+	+
59	BD16		Rod	Chains	+	+
60	BD14	+	Cocci	Pairs	+	+
61	BD4	+	Cocci	Chains	+	+
62	BD13	-	Cocci	Clusters	+	+
63	BD25	+	Rod	Chains	+	-
64	BD21	+	Cocci	Chains	+	-
65	BD12	-	Cocci	Clusters	+	-
66	BD5	+	Rods	Clusters	+	-
67	BD17		Rods	Pairs	+	+
68	BD3	-	Cocci	Chains	+	-
69	BD24	-	Cocci	Clusters	+	-
70	BD19	+	Cocci	Clusters	+	-
71	BD2	-	Cocci	Clusters	+	+
72	CE1	+	Rod	Chains	+	+
73	CE2	+	Cocci	Pairs	+	+
74	CE3	-	Cocci	Chains	+	+
75	CE4	-	Cocci	Clusters	+	+
76	CE5	-	Rod	Chains	+	+
77	CE6A	+	Cocci	Chains	+	-
78	CE16	-	Cocci	Clusters	+	+
79	CEX5	-	Rods	Clusters	+	+
80	CE7	+	Rods	Pairs	+	+
81	CE8	+	Cocci	Chains	+	+
82	CE9	+	Cocci	Clusters	+	+
83	CE10	-	Cocci	Clusters	+	+
84	CE11	-	Cocci	Clusters	+	+
85	CE12	-	Rod	Chains	-	+
86	CE14	+	Cocci	Pairs	+	+
87	CE15	+	Cocci	Chains	+	+
88	CF1	-	Cocci	Clusters	+	+
89	CF2	+	Rod	Chains	+	+
90	CF3	+	Cocci	Chains	+	+
91	CF4	+	Cocci	Clusters	-	+
92	CF5	-	Rods	Clusters	+	+
93	CF6	+	Rods	Pairs	-	+
94	CF7	-	Cocci	Chains	-	+
95	CF8	+	Cocci	Clusters	+	+
96	CF9	+	Cocci	Clusters	+	+
97	CF10	+	Cocci	Clusters	+	+

98	CF11	+	Rod	Chains	+	+
99	CF12	-	Cocci	Pairs	+	+
100	CF13	-	Cocci	Chains	+	+
101	CF14	-	Cocci	Clusters	+	+
102	CF15	+	Rod	Chains	+	+
103	CF17	+	Cocci	Chains	+	+
104	CF18	+	Cocci	Clusters	+	+
105	CF19	+	Rods	Clusters	+	+
106	CF20	-	Rods	Pairs	+	+
107	CF21	+	Cocci	Chains	+	+
108	CF22	-	Cocci	Clusters	+	+
109	CF23	+	Cocci	Clusters	+	+
110	CF24	+	Cocci	Clusters	+	+
111	CF25	+	Rod	Chains	+	+
112	CF26	+	Cocci	Pairs	+	+
113	CF27	-	Cocci	Chains	+	+
114	CF28	-	Cocci	Clusters	+	+
115	DG1	-	Rod	Chains	+	+
116	DG2	-	Cocci	Chains	+	+
117	DG3	+	Cocci	Clusters	+	+
118	DG4	+	Rods	Clusters	+	+
119	DG5	-	Rods	Pairs	+	+
120	DG6	+	Cocci	Clusters	+	-
121	DG7	-	Cocci	Clusters	+	+
122	DG8	+	Rod	Chains	+	+
123	DG9	+	Cocci	Pairs	+	+
124	DG10	+	Cocci	Chains	+	+
125	DG11	+	Cocci	Clusters	-	+
126	DG12	-	Rod	Chains	+	+
127	DG13	-	Cocci	Chains	+	+
128	DG14	-	Cocci	Clusters	-	+
129	DG15	+	Rods	Clusters	+	+
130	DG16	+	Rods	Pairs	+	+
131	DG17	+	Cocci	Chains	+	+
132	DG18	+	Cocci	Clusters	+	+
133	DG19	-	Cocci	Clusters	-	+
134	DG20	+	Cocci	Clusters	-	+
135	DG21	-	Rod	Chains	+	+
136	DG22	+	Cocci	Pairs	-	+
137	DG23	+	Cocci	Chains	-	+
138	DG24	+	Cocci	Clusters	+	+
139	DH1	-	Rod	Chains	+	+
140	DH2	-	Cocci	Chains	+	+
141	DH3	+	Cocci	Clusters	+	+
142	DH4	+	Rods	Clusters	+	+
143	DH5	-	Rods	Pairs	+	+
144	DH6	+	Cocci	Chains	+	+
145	DH7	-	Cocci	Clusters	+	+
146	DH8	+	Cocci	Clusters	+	+
147	DH9	+	Cocci	Clusters	+	+
148	DH10	+	Rod	Chains	+	+

149	DH11	+	Cocci	Pairs	+	+
150	DH12	-	Cocci	Chains	+	+
151	DH13	-	Cocci	Clusters	-	+
152	DH14	-	Rod	Chains	+	+
153	DH15	+	Cocci	Chains	+	+
154	DH16	+	Cocci	Clusters	+	+
155	DH17	-	Rods	Clusters	+	-
156	DH18	+	Rods	Pairs	+	+
157	DH19	-	Cocci	Chains	-	+
158	DH20	+	Cocci	Clusters	+	+
159	DH21	-	Cocci	Clusters	+	+
160	DH22	+	Cocci	Clusters	+	+
161	DH23	-	Rod	Chains	+	+
162	DH24	+	Cocci	Pairs	+	+
163	DH25	-	Cocci	Chains	+	+
164	DH26	+	Cocci	Clusters	+	+
165	DH27	+	Rod	Chains	+	+
166	DH28	+	Cocci	Chains	+	+
167	DH29	+	Cocci	Clusters	+	+
168	DH30	-	Rods	Clusters	+	+
169	DH31	-	Rods	Clusters	+	+