

Diverse siderophore metabolisms of co-habiting soil bacteria

Rene Boiteau, Sarah Fansler, Yuliya Farris, Jared Shaw, David Koppenaal, Ljiljana Pasa-Tolic, Janet Jansson

Supporting information

Table S1-2

Table S1: Validated masses detected by direct infusion FT-ICRMS

$[M+^{54}\text{Fe} - 2\text{H}]^+ \text{ m/z}$	$[M+^{56}\text{Fe} - 2\text{H}]^+ \text{ m/z}$	$[M+^{57}\text{Fe} - 2\text{H}]^+ \text{ m/z}$	$[M]^+$	Detected by LCMS?
375.1498	377.1456	378.2388	324.9461	N
476.2827	478.2773	479.2808	426.0778	N
528.1718	530.1671	531.1675	477.9676	Y
550.1537	552.1490	553.1495	499.9495	Y
560.0508	562.0461	563.0466	509.8466	Y
566.1277	568.1230	569.1234	515.9235	Y
572.1357	574.1310	575.1314	521.9315	Y
598.2613	600.2566	601.2571	548.0571	Y
612.2769	614.2721	615.2726	562.0726	Y
634.2588	636.2542	637.2546	584.0547	N
652.2718	654.2672	655.2676	602.0677	Y
670.2825	672.2778	673.2782	620.0783	Y
674.2538	676.2491	677.2495	624.0496	Y
676.2695	678.2648	679.2652	626.0653	N
690.2277	692.2231	693.2235	640.0236	N
696.371	698.3662	699.3666	646.1667	Y
724.4022	726.3975	727.3979	674.1980	Y

Table S2: Major iron species detected by LCMS

Retention time (min)	[M+ ⁵⁴ Fe - 2H] ⁺ m/z	[M+ ⁵⁶ Fe - 2H] ⁺ m/z	[M] ⁺ m/z
15.5	454.099	456.094	403.182
8.5	456.115	458.110	405.199
9.1	472.109	474.104	421.194
9.0	494.091	496.086	443.175
5.1	510.065	512.061	459.149
11.2	514.156	516.151	463.240
12.1	516.030	518.025	465.114
9.9	520.678~	521.676~	
8.7	521.170~	522.168~	
10.9	528.178~	529.175~	
9.6	528.675~	529.673~	
11.8	528.172	530.167	477.256
10.0	531.669~	532.667~	
3.1	532.047	534.042	481.131
9.9	539.656~	540.653~	
12.1	550.154	552.149	499.238
23.5	560.051	562.046	509.135
12.1	566.128	568.123	515.212
21.5	568.053	570.049	543.593
11.8	572.136	574.131	521.220
11.8	588.110	590.106	537.194
21.5	590.035	592.030	539.119
13.4	598.261	600.256	547.345
14.8	612.277	614.272	561.361
3.12	616.152	618.147	565.235
12.0	624.241	626.236	573.325
16.6	634.259	636.255	583.343
12.7	638.256	640.251	587.340
2.2	639.785	641.780	588.869
11.0	643.247~	644.245~	
10.7	651.244~	652.242~	
13.2	652.272	654.267	601.356
13.7	654.288	656.283	603.372
9.4	656.734~	657.732~	
10.4	658.252~	659.250~	
9.4	664.732~	665.729~	
11.0	670.283	672.278	619.366
13.3	674.254	676.250	623.338
21.4	696.371	698.366	645.455
13.6	712.073	714.068	661.157
16.1	721.068	723.064	670.152
23.3	724.402	726.397	673.486

13.9	739.079	741.074	688.163
18.1	924.300	926.295	873.384
19.2	926.317	928.312	875.401
3.2	945.207	947.202	894.290

$\sim$ Doubly charged $[M + Fe - H]^{2+}$