Supplementary Table 2: Molecules that remained unidentified from the conditioned media prepared from CLF05 (*Bacillus cereus*) and CLG01 (*Bacillus velezensis*) isolated from faecal matter and gastrointestinal tract of *C. livia* through LC-MS. The conditioned media was subjected to chloroform extraction and the extracts were subject to LC-MS analysis. The spectre generated were searched in the METLIN library in order to reveal the potential identity of the detected molecules.

CLF05 (*Bacillus cereus*)			
Compound	**Retention time**	**Molecular mass**	**Molecular formula**
1	1.091	118.0274	C4 H6 O4
2	15.282	298.1613	C16 H26 O3 S
3	15.383	266.1566	C13 H22 N4 S
4	15.619	298.1611	C16 H26 O3 S
5	16.266	312.176	C17 H28 O3 S
6	16.705	312.1774	C17 H28 O3 S
7	16.997	354.2099	C17 H30 N4 O2 S
8	17.275	398.2357	C19 H34 N4 O3 S
9	17.293	326.1922	C18 H30 O3 S
10	17.534	294.1887	C15 H26 N4 S
11	18.647	338.2157	C10 H22 N14
12	19.148	382.2403	C19 H34 N4 O2 S
13	0.625	149.1059	C6 H15 N O3
14	0.643	248.0524	C9 H12 O8
15	0.91	408.0139	C13 H8 N6 O8 S
16	1.014	131.0918	
17	1.04	137.078	C3 H11 N3 O3
18	1.568	121.1099	
19	1.696	102.0688	C5 H10 O2
20	3.133	118.0991	C6 H14 O2
21	8.522	218.1635	C10 H22 N2 O3
22	9.43	294.1047	C14 H18 N2 O3 S
23	10.273	232.125	C10 H20 N2 O2 S
24	10.274	362.1884	C17 H26 N6 O S
25	10.56	231.1838	C12 H25 N O3
26	10.801	398.2322	C22 H30 N4 O3
27	11.178	236.0992	C12 H16 N2 O S
28	11.227	104.0643	C5 H12 S
29	12.33	259.2148	C14 H29 N O3
30	12.34	157.1464	C9 H19 N O

31	14.784	469.362	C24 H47 N5 O4
32	14.818	425.336	C22 H43 N5 O3
33	14.85	364.2826	C19 H40 O6
34	15.632	571.4309	C29 H57 N5 O6
35	15.684	510.3769	C26 H54 O9
36	15.738	466.3506	C24 H50 O8
37	15.787	439.3502	C19 H41 N11 O
38	15.834	378.2982	C20 H42 O6
39	16.754	148.0159	C8 H4 O3
40	17.002	274.2507	C16 H34 O3
41	17.28	318.2767	C18 H38 O4
42	17.562	428.3108	C20 H40 N6 O4
43	17.727	596.3221	C25 H44 N10 O5 S
44	17.781	640.3477	C27 H48 N10 O6 S
45	18.972	288.2669	C17 H36 O3
46	19.855	371.339	C22 H45 N O3
47	20.524	610.1564	C40 H23 Cl N4 O
48	20.667	397.3535	C20 H43 N7 O
49	20.949	923.2649	
50	21.102	148.0173	C8 H4 O3
51	21.102	112.1263	C8 H16
52	21.102	390.2807	C21 H42 O4 S
53	21.337	701.2085	C44 H32 Cl N3 O4
54	22.22	425.3894	C26 H51 N O3
55	22.385	775.2249	
56	22.562	609.1775	C33 H28 Cl N5 O5
57	23.616	525.4744	C32 H63 N O4

CLG01 (*Bacillus velezensis*)

Compound	Retention time	Molecular mass	Molecular formula
1	0.64	226.0745	C6 H10 N8 S
2	1.103	118.0287	C5 H2 N4
3	14.06	333.2534	C18 H31 N5 O
4	14.972	298.1609	C16 H26 O3 S
5	15.115	266.156	C12 H26 O4 S
6	15.379	298.1607	C16 H26 O3 S
7	15.734	312.1776	C17 H28 O3 S
8	15.901	361.2848	C20 H35 N5 O
9	16.056	310.1814	C17 H27 Cl N2 O
10	16.285	312.1766	C17 H28 O3 S
11	16.499	354.2083	C16 H34 O6 S
12	16.688	398.2357	C19 H34 N4 O3 S
13	16.752	326.1941	C14 H30 O8

14	16.964	442.2627	C22 H34 N8 S
15	17.154	294.1906	C12 H30 N4 S2
16	18.272	415.3314	C24 H41 N5 O
17	18.416	338.2158	C10 H22 N14
18	18.867	340.2078	C19 H32 O3 S
19	19.068	382.2415	C19 H34 N4 O2 S
20	19.386	426.2676	C21 H38 N4 O3 S
21	19.515	322.2195	C17 H30 N4 S
22	19.58	470.2921	C22 H46 O8 S
23	19.721	514.3204	C26 H42 N8 O S
24	0.643	165.101	C7 H11 N5
25	1.065	131.0864	
26	10.562	231.1842	C12 H25 N O3
27	12.332	259.2153	C14 H29 N O3
28	14.608	672.4667	C33 H68 O13
29	14.64	645.467	C32 H63 N5 O8
30	14.674	584.4135	C29 H60 O11
31	14.71	540.3872	C27 H56 O10
32	14.747	496.3613	C25 H52 O9
33	14.783	452.3365	C24 H44 N4 O4
34	14.817	408.3106	C22 H40 N4 O3
35	14.846	364.2835	C20 H36 N4 O2
36	14.876	320.2568	C17 H36 O5
37	15.389	774.5355	
38	15.432	730.5082	C36 H74 O14
39	15.477	703.5108	C36 H65 N9 O5
40	15.525	642.4558	C32 H66 O12
41	15.575	598.4291	C30 H62 O11
42	15.627	554.4031	C28 H58 O10
43	15.681	510.3766	C26 H54 O9
44	15.735	466.351	C24 H50 O8
45	15.787	422.3241	C22 H46 O7
46	15.836	378.2979	C20 H42 O6
47	15.884	334.2714	C18 H38 O5
48	15.9	290.2451	C16 H34 O4
49	16.295	788.5476	
50	16.35	761.5461	
51	16.408	700.496	C32 H64 N10 O7
52	16.468	673.4977	C31 H59 N15 O2
53	16.53	612.4446	C31 H64 O11
54	16.595	568.4178	C26 H52 N10 O4
55	16.659	524.3943	C28 H52 N4 O5

56	16.725	480.3676	C26 H48 N4 O4
57	16.787	436.3398	C23 H48 O7
58	16.846	392.3153	C22 H40 N4 O2
59	16.9	348.2876	C19 H40 O5
60	19.763	434.3609	C24 H50 O6
61	19.782	495.4138	C27 H53 N5 O3
62	19.856	371.3399	C22 H45 N O3
63	20.069	668.3791	C29 H52 N10 O6 S
64	20.523	610.1636	C32 H38 N2 S5
65	21.333	684.186	C39 H40 O3 S4