

Supplementary materials

TABLE S1: Characteristics of the representative *16S rRNA* gene sequences of 21 bacterial species identified from *Lucilia sericata* using Culture-dependent method

Assigned bacterial spp.	Origin	Length (bp)	Similarity %			Taxonomy		GenBank ID
			NCBI	EzBioCloud	leBIBI	Phylum	Family	
<i>Bacillus cereus</i>	L3 retrieved from a bed sore	1369	99.86	99.86	99	Firmicutes	Bacillaceae	MF399393
<i>Wohlfahrtiimonas chitiniclastica</i>	L3 retrieved from a bed sore	1399	99.14	99.57	99	Proteobacteria	unclassified	MF399392
<i>Paenibacillus urinalis</i>	Crop of unfed L3	1444	99.04	99.12	99	Firmicutes	Paenibacillaceae	MF399389
<i>Lactococcus garvieae</i>	Sterile L1	1411	99.93	99.93	99	Firmicutes	Streptococcaceae	MF399387
<i>Morganella morganii</i>	L3 retrieved from a bed sore	1408	99.14	99.19	99	Proteobacteria	Morganellaceae	MF399386
<i>Pseudomonas alcaligenes</i>	Salivary glands of unfed L3	330	100	100	99	Proteobacteria	Pseudomonadaceae	MF399385
<i>Pseudomonas japonica</i>	Sugar meal	1404	98.99	99.13	99	Proteobacteria	Pseudomonadaceae	MF399384
<i>Proteus mirabilis</i>	Crop of unfed L3	1410	100	99.93	99	Proteobacteria	Morganellaceae	MF399382
<i>Proteus vulgaris</i>	Sterile eggs	1410	99.78	99.71	99	Proteobacteria	Morganellaceae	MF399333
<i>Citrobacter freundii</i>	Sterile eggs	1413	100	100	100	Proteobacteria	Enterobacteriaceae	MF399329
<i>Providencia alcalifaciens</i>	Non sterile eggs	1428	99.86	99.86	99	Proteobacteria	Morganellaceae	MF399328
<i>Providencia rustigianii</i>	Sterile L1	1429	100	99.93	99	Proteobacteria	Morganellaceae	MF399323
<i>Providencia vermicola</i>	Male fly from field	1410	99.78	99.78	99	Proteobacteria	Morganellaceae	MF399322
<i>Klebsiella oxytoca</i>	Female fly	1405	99.93	100	99	Proteobacteria	Enterobacteriaceae	MF399315
<i>Enterococcus avium</i>	L3 retrieved from a bed sore	1426	100	99.93	99	Firmicutes	Enterococcaceae	MF399312
<i>Enterococcus faecalis</i>	Sterile L1	1414	100	99.93	99	Firmicutes	Enterococcaceae	MF399311
<i>Escherichia coli</i>	L3 retrieved from a bed sore	1409	99.71	99.71	99	Proteobacteria	Enterobacteriaceae	MF399292
<i>Serratia marcescens</i>	Malpighian tubules of unfed L3	1423	100	99.64	99	Proteobacteria	Yersiniaceae	MF399279
<i>Shigella sonnei</i>	Sterile L1	1447	100	99.21	99	Proteobacteria	Enterobacteriaceae	MF399270
<i>Staphylococcus hominis</i>	non sterile pupae	1409	99.71	99.86	99	Firmicutes	Staphylococcaceae	MF399394
<i>Myroides phaeus</i>	Crop of fed L3	1393	97.95	97.96	98	Bacteroidetes	Flavobacteriaceae	MF399388

TABLE S2: Characteristics of the representative *16S rRNA* gene sequences of 32 bacterial species identified from *Lucilia sericata* using Culture-independent method

Assigned bacterial spp.	Origin	Length (bp)	Similarity %			Taxonomy		GenBank ID
			NCBI	EzBioCloud	leBIBI	Phylum	Family	
<i>Serratia marcescens</i>	Malpighian tubules of L3	768	99.35	99.35	99	Proteobacteria	Yersiniaceae	MF327132
<i>Pseudoxanthomonas japonensis</i>	L2	768	99.61	99.22	99	Proteobacteria	Xanthomonadaceae	MF327131
<i>Ventosimonas sp.</i>	Female fly	744	92	92	92	Proteobacteria	Ventosimonadaceae	MF327125
<i>Pseudomonas sp5</i>	Female fly	764	90	90.90	91	Proteobacteria	Pseudomonadaceae	MF327119
<i>Pseudomonas sp4</i>	Malpighian tubules of L3	521	99	99.42	99	Proteobacteria	Pseudomonadaceae	MF327114
<i>Pseudomonas sp3</i>	L2	571	100	97.72	97	Proteobacteria	Pseudomonadaceae	MF327113
<i>Pseudomonas sp2.</i>	Foregut of L3	762	99.87	99.87	99	Proteobacteria	Pseudomonadaceae	MF327112
<i>Pseudomonas otitidis</i>	Foregut of L3	762	99.87	99.87	99	Proteobacteria	Pseudomonadaceae	MF327108
<i>Pseudacidovorax intermedius</i>	Male fly	762	99.21	99.47	99	Proteobacteria	Comamonadaceae	MF327105
<i>Providencia vermicola</i>	L2	766	99.61	99.61	99	Proteobacteria	Morganellaceae	MF327103
<i>Providencia rustigianii</i>	L2	568	98.56	98.43	98	Proteobacteria	Morganellaceae	MF327079
<i>Providencia rettgeri</i>	Hindgut of L3	1499	99.61	99.61	99	Proteobacteria	Morganellaceae	MF327077
<i>Providencia burhodogranariae</i>	Digestive tract of L2	766	99.09	99.22	99	Proteobacteria	Morganellaceae	MF327075
<i>Proteus vulgaris</i>	Foregut of L3	768	98.57	98.57	99	Proteobacteria	Morganellaceae	MF327073
<i>Proteus mirabilis</i>	Malpighian tubules of L3	768	99.61	99.74	99	Proteobacteria	Morganellaceae	MF327052
<i>Proteus.hauseri</i>	Pupae	1493	99.61	99.61	99	Proteobacteria	Morganellaceae	MF327040
<i>Klebsiella michiganensis</i>	Foregut of L3	766	98.43	98.69	98	Proteobacteria	Enterobacteriaceae	MF327039
<i>Morganella morganii</i>	L2	768	98.05	98.63	98	Proteobacteria	Morganellaceae	MF327037
<i>Citrobacter freundii</i>	Eggs	759	98.70	98.83	99	Proteobacteria	Enterobacteriaceae	MF327034
<i>Acinetobacter rudis</i>	Male fly	766	95.69	95.42	96	Proteobacteria	Moraxellaceae	MF327033
<i>Weissella koreensis</i>	Eggs	798	99.25	99	99	Firmicutes	Leuconostocaceae	MF327032
<i>Vagococcus fluvialis</i>	Malpighian tubules of L3	784	97.56	97.32	98	Firmicutes	Enterococcaceae	MF327031
<i>Lysinibacillus parviboronicapiens</i>	Eggs	772	92.81	92.35	92	Firmicutes	Bacillaceae	MF327027
<i>Lactococcus garvieae</i>	Salivary glands of L3	1507	99.74	99.87	99	Firmicutes	Streptococcaceae	MF327026
<i>Lactobacillus sakei</i>	L2	793	100	99.87	100	Firmicutes	Lactobacillaceae	MF327025
<i>Lactobacillus curvatus</i>	L1	796	99.50	99.62	99	Firmicutes	Lactobacillaceae	MF327023
<i>Clostridium perfringens</i>	Eggs	743	99.46	99.46	99	Firmicutes	Clostridiaceae	MF327021
<i>Bacillus safensis</i>	Male fly	774	99.61	99.61	99	Firmicutes	Bacillaceae	MF327020
<i>Myroides phaeus</i>	L2	758	99.21	99.34	99	Bacteroidetes	Flavobacteriaceae	MF327019
<i>Dysgonomonas sp.</i>	Female fly	755	93	92.56	93	Bacteroidetes	Dysgonamonadaceae	MF327013
<i>Propionibacterium acnes</i>	Male fly	746	99.60	99.20	99	Actinobacteria	Propionibacteriaceae	MF327011
<i>Chryseobacterium lactis</i>	Malpighian tubules of L3	756	98.68	99.47	99	Bacteroidetes	Flavobacteriaceae	MF327012