

**S1 Table: Bacterial isolates based on 16S rRNA gene sequences, %identity to NCBI/ EZtaxon and its taxonomical affiliation**

Phylum	Class	Order	Family	Bacterial species	Isolates	% Identity		GenBank accession
						NCBI	EZtaxon	
Actinobacteria	Actinobacteria	Microccales	Intrasporangiaceae	<i>Janibacter hoylei</i>	DRLL28	100	100	KU550177
			Microbacteriaceae	<i>Leucobacter kyeonggiensis</i>	DRLL5	99	99.7	KU550174
				<i>Microbacterium paraoxydans</i>	DRLL9	100	99.93	KU550178
			Micrococcaceae	<i>Micrococcus yunnanensis</i>	DRLB26	100	100	KU550157
				<i>Micrococcus yunnanensis</i>	DRLM11	100	100	KU550165
				<i>Kocuria palustris</i>	DRLM21	100	100	KU550168
				<i>Kocuria palustris</i>	DRLL21	100	100	KU550183
				<i>Kocuria palustris</i>	DRLS3	100	100	KU550135
				<i>Micrococcus endophyticus</i>	DRLS7	99	99.7	KU550136
				<i>Micrococcus yunnanensis</i>	DRLS9	100	99.7	KU550137
Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	<i>Chryseobacterium rhizoplaneae</i>	DRLB18	99	99.49	KU550156
Firmicutes	Bacilli	Lactobacillales	Aerococcaceae	<i>Aerococcus viridans</i>	DRSL0	100	100	KU550138
		Bacillales	Bacillaceae	<i>Bacillus subtilis</i>	DRSL2	100	99.93	KU550139
				<i>Bacillus subtilis subsp. subtilis</i>	DRLM1	100	99.93	KU550158
				<i>Bacillus aerophilus</i>	DRLM7	100	100	KU550163
				<i>Bacillus aryabhatti</i>	DRLL2	100	99.93	KU550171

				<i>Bacillus subtilis</i> subsp. <i>subtilis</i>	DRLL4	99	99.93	KU550173
				<i>Bacillus cereus</i>	DRLL6	100	100	KU550175
				<i>Bacillus subtilis</i> subsp. <i>inaquosorum</i>	DRLL7	100	100	KU550176
			Staphylococcaceae	<i>Staphylococcus haemolyticus</i>	DRLS13	100	100	KU550140
				<i>Staphylococcus cohnii</i>	DRLS15	100	100	KU550141
				<i>Staphylococcus saprophyticus</i>	DRLB4	100	100	KU550151
				<i>Staphylococcus pasteurii</i>	DRLB15	100	99	KU550153
				<i>Staphylococcus cohnii</i>	DRLB9	100	100	KU550154
				<i>Staphylococcus arlettae</i>	DRLM3	100	100	KU550159
				<i>Staphylococcus warneri</i>	DRLM4	100	99.93	KU550160
				<i>Staphylococcus hominis</i>	DRLM12	100	100	KU550161
				<i>Staphylococcus cohnii</i>	DRLL14	100	100	KU550180
				<i>Staphylococcus pasteurii</i>	DRLL19	100	100	KU550182
	Clostridia	Clostridiales	Clostridiaceae	<i>Clostridium sporogenes</i>	DRLL25	99.78	99	KU550172
Proteobacteria	Beta Proteobacteria	Burkholderiales	Comamonadaceae	<i>Delftia lacustris</i>	DRLS27	100	100	KU550147
				<i>Delftia lacustris</i>	DRLB5	100	100	KU550152
	Gamma Proteobacteria	Aeromonadales	Aeromonadaceae	<i>Aeromonas veronii</i>	DRLL34	99.86	99	KU550184
		Enterobacteriales	Enterobacteriaceae	<i>Klebsiella michiganensis</i>	DRLS16	99	100	KU550142
				<i>Enterobacter asburiae</i>	DRLS23	99	99.85	KU550145

			<i>Pantoea dispersa</i>	DRLM15	100	100	KU550164
			<i>Enterobacter xiangfangensis</i>	DRLM20	99	99.62	KU550166
			<i>Enterobacter cloacae</i>	DRLM10	99	99.79	KU550167
			<i>Klebsiella pneumoniae</i>	DRLL24	99.79	99	KU550185
Pseudomonadales	Moraxellaceae		<i>Acinetobacter pittii</i>	DRLS19	100	100	KU550144
			<i>Acinetobacter pittii</i>	DRLM18	100	100	KU550169
			<i>Acinetobacter pittii</i>	DRLL11	100	100	KU550179
	Pseudomonadaceae		<i>Pseudomonas monteilii</i>	DRLS18	100	100	KU550143
			<i>Pseudomonas mosselii</i>	DRLB1	100	99.93	KU550148
			<i>Pseudomonas monteilii</i>	DRLB12	100	100	KU550155
			<i>Pseudomonas aeruginosa</i>	DRLM5	100	100	KU550162
			<i>Pseudomonas monteilii</i>	DRLL1	100	100	KU550170
Xanthomonadales	Xanthomonadaceae		<i>Pseudomonas geniculata</i>	DRLS26	100	100	KU550146
			<i>Pseudomonas geniculata</i>	DRLB2	100	100	KU550149
			<i>Pseudomonas geniculata</i>	DRLL16	100	100	KU550181
			<i>Stenotrophomonas maltophilia</i>	DRLB3	100	99.78	KU550150

Where: DRLS- Sugar fed female mosquitoes, DRLB- Blood fed female mosquitoes, DRLM- Male mosquitoes, DRLL- Larvae