

Table S1: Demographic data and molecular profile of MDRSA isolates (n=30).

ID	State	Location ID	Origin	Animals	<i>S. aureus</i> strain	AMR genes	Virulence genes	IEC type	<i>Spa</i> type
1	Kelantan	1	Animal farmer	Ruminant	MDR-MSSA	<i>ermA-msrA</i>	<i>sak</i>	N	t095
2	Terengganu	2	Animal farmer	Poultry	MDR-MSSA	<i>tetK-ermC</i>	<i>scn-sak</i>	E	t4171
3	Terengganu	2	Animal farmer	Poultry	MDR-MSSA	<i>ermC</i>	-	N	t4171
4	Pahang	3	Animal farmers	Ruminant	MDR-MSSA	<i>tetK</i>	<i>scn</i>	H	t189
5	Kuala Lumpur	4	Pet owner	Cats and dogs	MDR-MSSA	<i>ermC</i>	<i>scn-sak</i>	B	t050
6	Kelantan	5	Veterinarian	Pet and livestock	MDR-MSSA	<i>tetK-ermC</i>	-	NT	t9531
7	Kuala Lumpur	6	Veterinarian	Cats and dogs	MDR-MSSA	<i>tetL-ermC</i>	-	NT	t084
8	Johor	7	Animal farmers	Poultry	MDR-MSSA	<i>tetL-ermA-ermB-ermC-msrA</i>	<i>sak</i>	N	t605
9	Pahang	8	Animal farmers	Poultry	MDR-MSSA	<i>msrA</i>	-	NT	t4171
10	Pahang	8	Animal farmers	Poultry	MDR-MSSA	<i>msrA</i>	-	NT	t189
11	Pahang	8	Animal farmers	Poultry	MDR-MRSA	<i>mecA-tetK-tetM-msrA</i>	-	NT	t189
12	Pahang	8	Animal farmers	Poultry	MDR-MSSA	<i>tetK-ermA-ermB-ermC-msrA</i>	-	NT	t189
13	Terengganu	9	Animal farmers	Poultry	MDR-MSSA	<i>msrA</i>	-	NT	t2174
14	Terengganu	9	Animal farmers	Poultry	MDR-MSSA	<i>tetL</i>	-	NT	t2174
15	Terengganu	9	Animal farmers	Poultry	MDR-MSSA	<i>tetK</i>	-	NT	t2174
16	Terengganu	9	Animal farmers	Poultry	MDR-MSSA	<i>tetL</i>	-	NT	t127
17	Terengganu	9	Animal farmers	Poultry	MDR-MSSA	-	<i>sak</i>	N	t2174
18	Terengganu	10	Animal farmers	Ruminants	MDR-MSSA	<i>ermA-msrA</i>	<i>sak</i>	N	t050
19	Perak	11	Animal farmers	Aquaculture	MDR-MSSA	-	<i>sak</i>	N	t315
20	Penang	12	Animal farmers	Ruminant and poultry	MDR-MSSA	-	-	NT	t189
21	Terengganu	13	Pet owner	Pet	MDR-MSSA	-	<i>scn-sak</i>	E	t4171
22	Selangor	14	Pet owner	Pet	MDR-MSSA	<i>tetK</i>	<i>scn-sak-chp</i>	B	t550
23	Kelantan	15	Animal farmers	Ruminants	MDR-MSSA	-	-	NT	t548
24	Kelantan	16	Animal farmers	Ruminants	MDR-MSSA	-	-	NT	t091
25	Terengganu	17	Animal farmers	Ruminants	MDR-MSSA	<i>tetK</i>	-	NT	t714
26	Terengganu	18	Animal farmers	Ruminants	MDR-MSSA	<i>tetK-ermC-msrA</i>	-	NT	t3937
27	Terengganu	19	Animal farmers	Ruminants and poultry	MRSA	<i>mecA</i>	<i>scn-sak</i>	E	t4171
28	Terengganu	20	Pet owners	Pet	MRSA	<i>mecA-tetK</i>	<i>scn-sak</i>	E	t3293
29	Terengganu	20	Pet owners	Pet	MRSA	<i>mecA-tetK</i>	<i>scn-sak</i>	E	t3293
30	Kelantan	16	Animal farmer	Ruminants	MRSA	<i>mecA</i>	-	NT	t3080

N= No type; NT= Non-typable