

# ***Staphylococcus aureus* and Methicillin-Resistant Coagulase-Negative Staphylococci in Nostrils and Buccal Mucosa of Healthy Camels Used for Recreational Purposes**

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**Table S1.** Distribution of staphylococci isolates according to the geographical location and anatomical isolation site.

Animal	Location	Isolation Site	Isolate
Camel 1	Fuerteventura	Nasal	<i>S. aureus</i> (VS3145)
		Nasal	<i>S. chromogenes</i> (VS3151)
		Nasal	<i>S. epidermidis</i> (VS3152)
Camel 2	Gran Canaria	Nasal	<i>S. hominis</i> (VS3153)
		Nasal	<i>S. lentus</i> (VS3155)
		Oral	<i>S. lentus</i> (VS3166)
Camel 3	Gran Canaria	Nasal	<i>S. lentus</i> (VS3157)
Camel 4	Fuerteventura	Oral	<i>S. lentus</i> (VS3154)
Camel 5	Gran Canaria	Oral	<i>S. lentus</i> (VS3156)
		Oral	<i>S. aureus</i> (VS3140)
Camel 6	Gran Canaria	Nasal	<i>S. lentus</i> (VS3158)
		Nasal	<i>S. sciuri</i> (VS3168)
Camel 7	Fuerteventura	Oral	<i>S. lentus</i> (VS3159)
Camel 8	Fuerteventura	Oral	<i>S. lentus</i> (VS3165)
Camel 9	Fuerteventura	Oral	<i>S. lentus</i> (VS3162)
Camel 10	Fuerteventura	Oral	<i>S. lentus</i> (VS3160)
Camel 11	Fuerteventura	Oral	<i>S. lentus</i> (VS3161)
Camel 12	Fuerteventura	Oral	<i>S. lentus</i> (VS3164)
Camel 13	Fuerteventura	Oral	<i>S. lentus</i> (VS3163)
Camel 14	Gran Canaria	Oral	<i>S. sciuri</i> (VS3167)
Camel 15	Gran Canaria	Oral	<i>S. sciuri</i> (VS3170)
		Oral	<i>S. aureus</i> (VS3141)
Camel 16	Gran Canaria	Nasal	<i>S. sciuri</i> (VS3169)
		Oral	<i>S. aureus</i> (VS3142)
Camel 17	Fuerteventura	Nasal	<i>S. sciuri</i> (VS3171)
		Oral	<i>S. aureus</i> (VS3146)
Camel 18	Fuerteventura	Nasal	<i>S. sciuri</i> (VS3172)
		Oral	<i>S. sciuri</i> (VS3173)
Camel 19	Fuerteventura	Oral	<i>S. sciuri</i> (VS3173)
Camel 20	Gran Canaria	Nasal	<i>S. sciuri</i> (VS3174)
Camel 21	Gran Canaria	Nasal	<i>S. sciuri</i> (VS3175)
		Oral	<i>S. aureus</i> (VS3143)
Camel 22	Fuerteventura	Nasal	<i>S. sciuri</i> (VS3176)
		Oral	<i>S. aureus</i> (VS3144)
Camel 23	Fuerteventura	Nasal	<i>S. sciuri</i> (VS3177)
		Oral	<i>S. sciuri</i> (VS3178)
Camel 24	Fuerteventura	Oral	<i>S. sciuri</i> (VS3178)
Camel 25	Fuerteventura	Nasal	<i>S. xylosus</i> (VS3179)
Camel 26	Fuerteventura	Nasal	<i>S. xylosus</i> (VS3180)
Camel 27	Fuerteventura	Oral	<i>S. xylosus</i> (VS3181)
Camel 28	Fuerteventura	Nasal	<i>S. aureus</i> (VS3148)
		Nasal	<i>S. aureus</i> (VS3149)
Camel 29	Gran Canaria	Nasal	<i>S. aureus</i> (VS3150)
		Nasal	<i>S. aureus</i> (VS3147)
Camel 30	Fuerteventura	Nasal	<i>S. aureus</i> (VS3147)

**Table S2.** Primer pairs used for molecular typing and detection of antimicrobial resistance genes in staphylococci strains.

Gene (amplicon size)	Sequence (5' > 3')	Conditions	Reference
		94 °C 5 min 1 cycle	
<i>mecA</i> (527 bp)	F: GGGATCATAGCGTCATTATTC R: AACGATTGTGACACGATAGCC	94 °C 30 s 55 °C 30 s 30 cycles 72 °C 1 min	[1]
	F: CAGTTCACATGCCAAAGAG	72 °C 10 min 1 cycle 94 °C 3 min 1 cycle	
<i>blaZ</i> (772 bp)	R: TACACTCTTGGCGGTTTC	94 °C 1 min 50 °C 1 min 30 cycles 72 °C 2 min	[2]
	F: TCTAAAAAGCATGTAAAAGAA	72 °C 5 min 1 cycle	
<i>ermA</i> (645 bp)	R: CTTGATAGTTTATTAATATTAG		[2]
	F: GAAAAGTACTCAACCAAATA	93 °C 3 min 1 cycle	
<i>ermB</i> (639 bp)	R: AGTAACGGTACTTAAATTGTTTA	93 °C 1 min 52 °C 1 min 35 cycles 72 °C 1 min	[3]
	F: TCAAAAACATAATATAGATAAA	72 °C 5 min 1 cycle	
<i>ermC</i> (642 bp)	R: GCTAATATTGTTTAAATCGTCAAT		[4]
	F: CCGCCATTGAAATAGATCCT	94 °C 3 min 1 cycle	
<i>ermT</i> (200 bp)	R: TTCTGTAGCTGTGCTTTCAAAAA	94 °C 1 min 55 °C 1 min 30 cycles 72 °C 1 min	[5]
	F: GCAAATGGTGTAGGTAAGACAAC	72 °C 5 min 1 cycle 95 °C 3 min 1 cycle	
<i>msr(A/B)</i> (399 bp)	R: ATCATGTGATGTAAACAAAAT	93 °C 30 s 55 °C 2 min 35 cycles 72 °C 1.5 min	[6]
	F: ATGACTCGACATAATGAAAT	72 °C 5 min 1 cycle 94 °C 3 min 1 cycle	
<i>mph(C)</i> (900 bp)	R: CTACTCTTTCATACCTAACTC	94 °C 1 min 45 °C 1 min 30 cycles 72 °C 1 min	[2]
		72 °C 5 min 1 cycle	

		94 °C 2 min 1 cycle	
<i>lnu(A)</i> (323 bp)	F: GGTGGCTGGGGGGTAGATGTATTAAGTGG R: GCTTCTTTTGAAATACATGGTATTTTCGATC	94 °C 30 s 57 °C 30 s 30 cycles 72 °C 1 min	[7]
		72 °C 10 min 1 cycle 94 °C 5 min 1 cycle	
<i>lnu(B)</i> (944 bp)	F: CCTACCTATTGTTTGTGGAA R: ATAACGTTACTCTCCTATTC	94 °C 45 s 54 °C 45 s 30 cycles 72 °C 1 min	[8]
		72 °C 5 min 1 cycle 94 °C 3 min 1 cycle	
<i>vga(A)</i> (1264 bp)	F: AGTGGTGGTGAAGTAACACG R: GGTCAATACTCAATCGACTGAG	94 °C 1 min 56 °C 1 min 30 cycles 72 °C 1 min	[9]
		72 °C 5 min 1 cycle 94 °C 1 min 1 cycle	
<i>vga(B)</i> (576 pb)	F: TGACAATATGAGTGGTGGTG R: GCGACCATGAAATTGCTCTC	94 °C 1 min 55 °C 2 min 30 cycles 72 °C 2 min	[10]
		72 °C 10 min 1 cycle 94 °C 3 min 1 cycle	
<i>fusB</i> (431 bp)	F: CTATAATGATATTAATGAGATTTTGG R: TTTTACATATTGACCATCCGAATTGG	94 °C 30 s 57 °C 30 s 25 cycles 72 °C 45 s	[11]
<i>fusC</i> (332 bp)	F: TTAAAGAAAAAGATATTGATATCTCGG R: TTTACAGAATCCTTTTACTTTATTTGG	72 °C 7 min 1 cycle	
<i>fusD</i> (456 bp)	F: AATTCGGTCAACGATCCC R: GCCATCATTGCCAGTACG F: CTGATTACTATCCAAGAAATTCGATTG		[12] [13]
<i>hla</i>	R: CTTTCCAGCCTACTTTTTTATCAGT F: GTGCACTTACTGACAATAGTGC		[13]
<i>hlb</i>	R: GTTGATGAGTAGCTACCTTCAGT F: ACTGTAGGAGCTAGTGCATTTGT	94 °C 7 min 1 cycle	
<i>eta</i> (190 bp)	R: TGGATACTTTTGTCTATCTTTTTCATCAAC	94 °C 30 s 57 °C 30 s 30 cycles 72 °C 30 s	[13] [13]
<i>etb</i> (612 bp)	F: CAGATAAAGAGCTTTATACACACATTAC R: AGTGAACCTTATCTTTCTATTGAAAAACACTC F: TTCCTATTTGTAAAAGTGTGACACCCACT	72 °C 10 min 1 cycle	
<i>tst</i> (180 bp)	R: TACTAATGAATTTTTTTATCGTAAGCCCTT		[13]

<i>lukF/lukS</i> - PV (443 bp)	F: ATCATTAGGTAAAATGTCTGGACATGATCCA R: GCATCAAGTGTATTGGATAGCAAAAGC F: AGCACAAGCTTGCCAACATCG	95 °C 3 min 1 cycle	[14]
<i>scn</i> (257 bp)	R: TTAATATTACTTTTTAGTGC F: TTTACTTTTGAACCGTTTCCTAC	94 °C 30 s 53 °C 30 s 30 cycles	[15]
<i>chp</i> (366 bp)	R: CGTCCTGAATTCTTAGTATGCATATTCATTAG F: AAGGCGATGACGCGAGTTAT	72 °C 2 min	[15]
<i>sak</i> (223 bp)	R: GCGCTTGGATCTAATTCAAC F: AGATCATTCGTGGTATAACG	72 °C 6 min 1 cycle	[15]
<i>sea</i> (344 bp)	R: TTAACCGAAGGTTCTGTAGA F: AATCATAACCAACCGAATCA		[15]
<i>sep</i> (196 bp)	R: TCATAATGGAAGTGCTATAA		[15]

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