

MICRO PANEL

METHICILLIN-RESISTANT *STAPHYLOCOCCUS AUREUS* (MRSA) PANELS

The ATCC Methicillin-resistant *Staphylococcus aureus* (MRSA) Panels consist of 7 *S. aureus* strains confirmed to carry the *mecA* gene conferring resistance to methicillin. ATCC SCCmec Type MRSA Panel (ATCC® MP-2™) comprises organisms grouped by SCCmec type. ATCC Pulsed-Field Type MRSA Panel (ATCC® MP-3™) comprises organisms grouped by PFGE type. These panels are useful for studying the genetic variation between MRSA SCCmec types, the in vitro evaluation of disinfectants and novel antibiotics, and establishing the performance characteristics of molecular-based assays.

	ATCC No.	<i>S. aureus</i> strain designation	SCCmec Type ¹	PFGE ² Type	Spa Type		<i>pvl</i> gene amplification	Geographic isolation	Isolation source	Isolation date
					Ridom	Kreiswirth				
SCCmec Type MRSA Panel (ATCC® MP-2™)	BAA-44	HPV107	Type I	Iberian	t051	YHFGFMBQBLO	Negative	Lisbon, Portugal	Hospital	Unknown
	BAA-41	NYBK2464	Type II	USA 100	t002	TJMBMDMGMK	Negative	New York, NY (USA)	Hospital	1994
	33592	1063	Type III	ST239	t037	WGKAOMQ	Negative	New York City, NY (USA)	Blood - Hospital	Unknown
	BAA-1683	HFH-30364	Type IV	USA 400	t125	UJJJJFE	Positive	Detroit, MI (USA)	Human abscess - Hospital	2004
	BAA-2094	B8-31	Type V	WA-MRSA*	t123	A2AKBEKBB	Negative	Western Australia	Clinical isolate	Unknown
	BAA-42	HDE288	Type VI	USA 800	t311	TJMBDMGMK	Negative	Lisbon, Portugal	Child - Hospital pneumology ward	1996
	BAA-2313	M10/0148	Type XI	CC130	t373	ZMOMOKM	Negative	Dublin, Ireland	64-year-old female - Hospital	2010

¹Information for SCCmec type XI was supplied by the depositor; ATCC screening is not sensitive for this SCCmec type. ²PFGE typing was performed using the restriction enzyme *Sma*; PFGE typing was confirmed by ATCC unless otherwise noted (*depositor-supplied information)

	ATCC No.	<i>S. aureus</i> strain designation	SCC <i>mec</i> Type ¹	PFGE ² Type	Spa Type		<i>pvl</i> gene amplification	Geographic isolation	Isolation source	Isolation date
					Ridom	Kreiswirth				
Pulsed-Field Type MRSA Panel (ATCC® MP-3™)	BAA-1761	GA201	Type II	USA 100	t002	TJMBMDMGMK	Negative	Unknown	Human subject	Unknown
	BAA-1720	MRSA252	Type II	USA 200	t018	WGKAKAOMQQQ	Negative	United Kingdom	Hospital acquired	Unknown
	BAA-1717	TCH1516	Type IV	USA 300	t622	YHGFMBLO	Positive	Texas (USA)	Adolescent patient with severe sepsis	Unknown
	BAA-1707	MW2 ⁺	Type IV	USA 400	t125	UJJJJFE	Positive	North Dakota (USA)	Female patient	1998
	BAA-1763	GA229	Type IV	USA 500	t064	YHGCMBQBLO	Negative	Unknown	Human subject	Unknown
	BAA-1754	00:50	Type IV	USA 600	t671	UAKBEMBKB	Negative	Unknown	Human subject	Unknown
	BAA-1766	8-03	Type V	USA 700	t148	UJGFGMDMGGM	Negative	Wisconsin (USA)	Human subject	Unknown
	BAA-1768	27-05	Type IV	USA 800	t2882	TJMBMDMGDMGK	Negative	Hawaii (USA)	Wound	Unknown
	BAA-1747	94:1013	Type IV	USA 1000	t316	ZDMHKB	Positive	Vermont (USA)	Skin lesion	1993
	BAA-1764	7031	Type IV	USA 1100	t019	XKAKAOMQ	Positive	Alaska (USA)	Abcess	Unknown

¹Information for SCC*mec* type XI was supplied by the depositor; ATCC screening is not sensitive for this SCC*mec* type. ²PFGE typing was performed using the restriction enzyme *Sma*I; PFGE typing was confirmed by ATCC unless otherwise noted (*depositor-supplied information)

The data above were generated by ATCC through testing of stock based on protocols described in: Kondo Y, et. al., Combination of multiplex PCRs for staphylococcal cassette chromosome *mec* type assignment: rapid identification system for *mec*, *ccr*, and major differences in junkyard regions. *Antimicrob Agents Chemother.* (2007) Jan; 51(1):261-74. (PMID: 17043114) and, Goering RV, et. al., Pulsed Field Gel Electrophoresis: Laboratory and Epidemiologic Considerations for Interpretation of Data. In D.H. Persing, F.C. Tenover, F.S. Nolte, R.T. Hayden, & A. van Belkum. (eds.), *Molecular Microbiology: Diagnostic Principles and Practice*, 2nd ed. /2011) ASM Press, Washington, D.C. Chapter 10, pp. 167-177. and, Lina E, et. al., Involvement of Pantone-Valentine leukocidin-producing *Staphylococcus aureus* in primary skin infections and pneumonia. /1999) *Clin Infect Dis.* Nov; 29(5):1128-32. (PMID:10524952) and, Shopsis B, et. al. *J. Clin. Microbiol.* 1999, 37(11):3556. (PMID: 10 523551) ATCC provides these data in good faith, but makes no warranty, express or implied, nor assumes any legal liability or responsibility for any purpose for which the data are used.

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