

***In vitro* activity of bacteriophages
against ocular methicillin-resistant *S. aureus* isolates collected in the US**

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Supplementary Table S1. List of MRSA isolates causing eye infections collected at MEE.

Sample ID	Diagnosis	ST	CC	SCCmec type
1	Periocular infections*	ST8	CC8	IV
2	Periocular infections	ST8	CC8	IV
3	Periocular infections	ST105	CC5	II
4	Lacrimal system	ST105	CC5	II
5	Periocular infections	ST1472	CC30	IV
6	Lacrimal system	ST105	CC5	II
7	Periocular infections	ST88	CC88	IV
8	Periocular infections	ST30	CC30	IV
9	Periocular infections	ST30	CC30	IV
10	Conjunctivitis	ST5	CC5	II
11	Periocular infections	ST5	CC5	II
12	Conjunctivitis	ST105	CC5	II
13	Periocular infections	ST8	CC8	IV
14	Lacrimal system	ST72	CC8	IV
15	Periocular infections	ST5	CC5	IV
16	Lacrimal system	ST105	CC5	II
17	Keratitis	ST5	CC5	II
18	Keratitis	ST5	CC5	II
19	Conjunctivitis	ST8	CC8	IV
20	Keratitis	ST5	CC5	II
21	Keratitis	ST8	CC8	IV
22	Endophthalmitis	ST1618	CC5	II
23	Keratitis	ST105	CC5	II
24	Conjunctivitis	ST5	CC5	II
25	Lacrimal system	ST5	CC5	II
26	Lacrimal system	ST5	CC5	II
27	Keratitis	ST3390	CC5	II
28	Periocular infections	ST6	ST6	IV
29	Conjunctivitis	ST59	CC59	IV
30	Keratitis	ST5	CC5	II
31	Lacrimal system	ST8	CC8	IV
32	Endophthalmitis	ST5	CC5	II
33	Periocular infections	ST8	CC8	IV
34	Keratitis	ST8	CC8	IV
35	Lacrimal system	ST1472	CC30	IV
36	Periocular infections	ST338	CC59	VIII
37	Conjunctivitis	ST87	CC59	IV
38	Periocular infections	ST338	CC59	V
39	Keratitis	ST8	CC8	IV
40	Periocular infections	ST5	CC5	II
41	Endophthalmitis	ST5	CC5	II
42	Periocular infections	ST8	CC8	IV
43	Lacrimal system	ST840	CC5	IV
44	Keratitis	ST105	CC5	II
45	Periocular infections	ST3167	CC8	IV
46	Keratitis	ST5	CC5	IV
47	Periocular infections	ST4144	CC8	IV
48	Periocular infections	ST8	CC8	IV
49	Lacrimal system	ST1472	CC30	IV
50	Keratitis	ST72	CC8	IV

*Includes eyebrow abscess, orbital abscess and cellulitis, subperiosteal abscess and preseptal cellulitis.

Supplementary Table S2. List of phages and bacterial strains used for phage propagation.

Phage	Genus	Production strain	Species of production strain	Genome accession number
V4SA2	<i>Rosenblumvirus</i>	P2SA40	<i>S. aureus</i>	OR602701
V1SA9	<i>Silviavirus</i>	P2SC24	<i>S. capitis</i>	OR602702
V1SA12	<i>Kayvirus</i>	P2SC24	<i>S. capitis</i>	OR611155
V1SA19	<i>Silviavirus</i>	P2SA225	<i>S. aureus</i>	ON814134
V1SA20	<i>Silviavirus</i>	P2SA225	<i>S. aureus</i>	ON814135
V1SA22	<i>Silviavirus</i>	P2SA237	<i>S. aureus</i>	ON814136