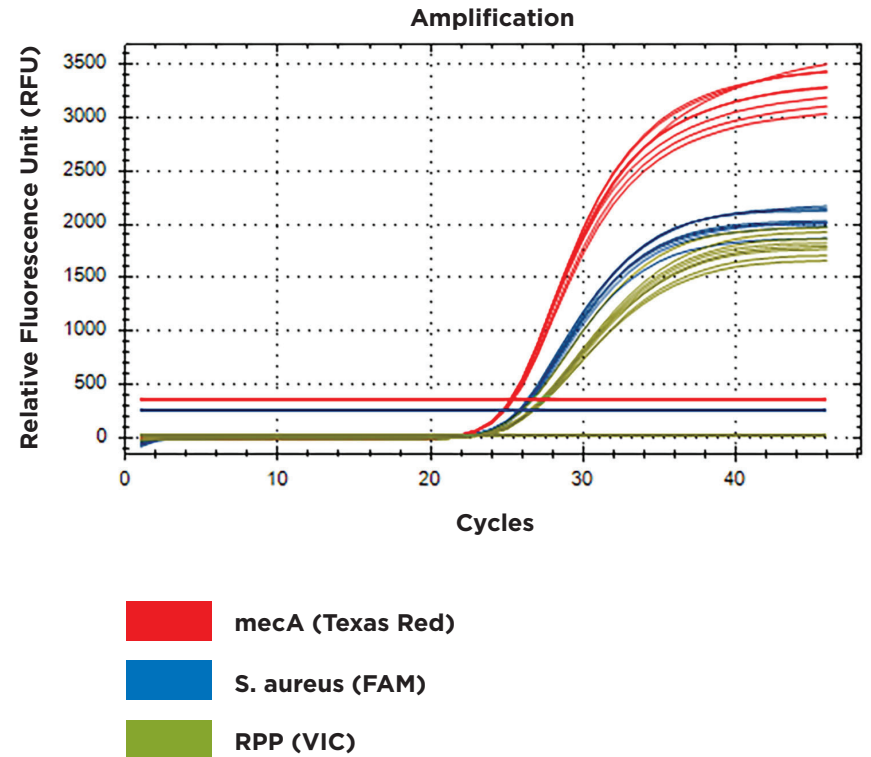




TEST RUN 1 - Three Targets: S. aureus, mecA, RPP

- 10⁴ copies/ul of assay + 10⁴ copies/ul of human RPP tested.
- Expected result - signals for both S.aureus (Blue/FAM), mecA (Red/Texas Red) & RPP (Green/VIC) at similar Cq.

Well	Fluor	Target	Content	Sample	Cq	Mean	Std. Dev
A02	FAM	S. aureus	Pos Ctrl	PC	25.89	25.89	0.10
B02	FAM	S. aureus	Pos Ctrl	PC	25.87		
C02	FAM	S. aureus	Pos Ctrl	PC	26.09		
D02	FAM	S. aureus	Pos Ctrl	PC	25.77		
E02	FAM	S. aureus	Pos Ctrl	PC	25.78		
F02	FAM	S. aureus	Pos Ctrl	PC	25.89		
G02	FAM	S. aureus	Pos Ctrl	PC	25.96		
H02	FAM	S. aureus	Pos Ctrl	PC	25.87		
A02	Texas Red	mecA	Pos Ctrl	PC	25.21	25.26	0.08
B02	Texas Red	mecA	Pos Ctrl	PC	25.18		
C02	Texas Red	mecA	Pos Ctrl	PC	25.40		
D02	Texas Red	mecA	Pos Ctrl	PC	25.24		
E02	Texas Red	mecA	Pos Ctrl	PC	25.20		
F02	Texas Red	mecA	Pos Ctrl	PC	25.25		
G02	Texas Red	mecA	Pos Ctrl	PC	25.34		
H02	Texas Red	mecA	Pos Ctrl	PC	25.23		
A02	VIC	RPP	Pos Ctrl	PC	22.79	22.94	0.25
B02	VIC	RPP	Pos Ctrl	PC	23.03		
C02	VIC	RPP	Pos Ctrl	PC	23.01		
D02	VIC	RPP	Pos Ctrl	PC	22.48		
E02	VIC	RPP	Pos Ctrl	PC	22.76		
F02	VIC	RPP	Pos Ctrl	PC	23.16		
G02	VIC	RPP	Pos Ctrl	PC	23.24		
H02	VIC	RPP	Pos Ctrl	PC	23.02		



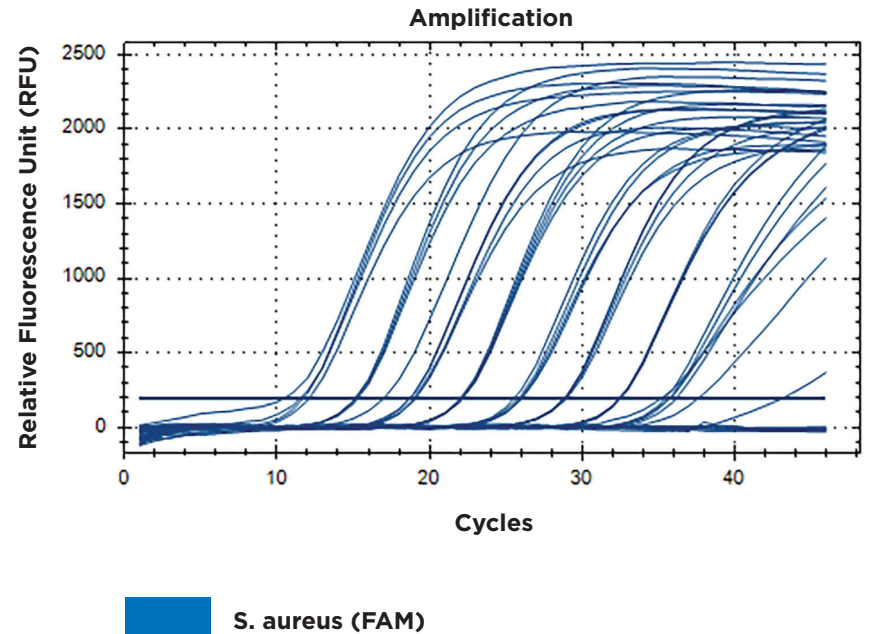


TEST RUN 2 - S. aureus Probe

- Tested for MRSA at 10⁸ copies/ul to 1 copy/ul and RPP30 at 10² copies/ul.
- Expected result: signals at increasing orders of Cq for FAM (Blue), Texas Red (Red) and similar Cq for VIC (Green).

Well	Fluor	Target	Content	Sample	Cq	Mean	Std. Dev
A02	FAM	S. aureus	Pos Ctrl	10 ⁸	10.47	11.46	0.70584782
B02	FAM	S. aureus	Pos Ctrl	10 ⁸	11.52		
C02	FAM	S. aureus	Pos Ctrl	10 ⁸	12.12		
D02	FAM	S. aureus	Pos Ctrl	10 ⁸	11.73		
E02	FAM	S. aureus	Pos Ctrl	10 ⁷	17.04	15.66	0.9171466
F02	FAM	S. aureus	Pos Ctrl	10 ⁷	15.19		
G02	FAM	S. aureus	Pos Ctrl	10 ⁷	15.13		
H02	FAM	S. aureus	Pos Ctrl	10 ⁷	15.30		
A04	FAM	S. aureus	Pos Ctrl	10 ⁶	19.03	18.89	0.20147506
B04	FAM	S. aureus	Pos Ctrl	10 ⁶	19.10		
C04	FAM	S. aureus	Pos Ctrl	10 ⁶	18.72		
D04	FAM	S. aureus	Pos Ctrl	10 ⁶	18.72		
E04	FAM	S. aureus	Pos Ctrl	10 ⁵	22.05	22.13	0.06035747
F04	FAM	S. aureus	Pos Ctrl	10 ⁵	22.14		
G04	FAM	S. aureus	Pos Ctrl	10 ⁵	22.17		
H04	FAM	S. aureus	Pos Ctrl	10 ⁵	22.18		
A06	FAM	S. aureus	Pos Ctrl	10 ⁴	26.09	25.88	0.24317857
B06	FAM	S. aureus	Pos Ctrl	10 ⁴	26.04		
C06	FAM	S. aureus	Pos Ctrl	10 ⁴	25.86		
D06	FAM	S. aureus	Pos Ctrl	10 ⁴	25.55		
E06	FAM	S. aureus	Pos Ctrl	10 ³	28.85	28.91	0.08733899
F06	FAM	S. aureus	Pos Ctrl	10 ³	28.90		
G06	FAM	S. aureus	Pos Ctrl	10 ³	28.84		
H06	FAM	S. aureus	Pos Ctrl	10 ³	29.03		
A08	FAM	S. aureus	Pos Ctrl	10 ²	35.23	33.17	1.37428682
B08	FAM	S. aureus	Pos Ctrl	10 ²	32.44		
C08	FAM	S. aureus	Pos Ctrl	10 ²	32.47		
D08	FAM	S. aureus	Pos Ctrl	10 ²	32.54		
E08	FAM	S. aureus	Pos Ctrl	10 ¹	36.20	35.80	0.30438584
F08	FAM	S. aureus	Pos Ctrl	10 ¹	35.47		
G08	FAM	S. aureus	Pos Ctrl	10 ¹	35.74		
H08	FAM	S. aureus	Pos Ctrl	10 ¹	35.79		
A10	FAM	S. aureus	Pos Ctrl	10 ⁰	*	40.42	3.91972006
B10	FAM	S. aureus	Pos Ctrl	10 ⁰	37.64		
C10	FAM	S. aureus	Pos Ctrl	10 ⁰	43.19		
D10	FAM	S. aureus	Pos Ctrl	10 ⁰	*		

*No Cq observed within 45 cycles.



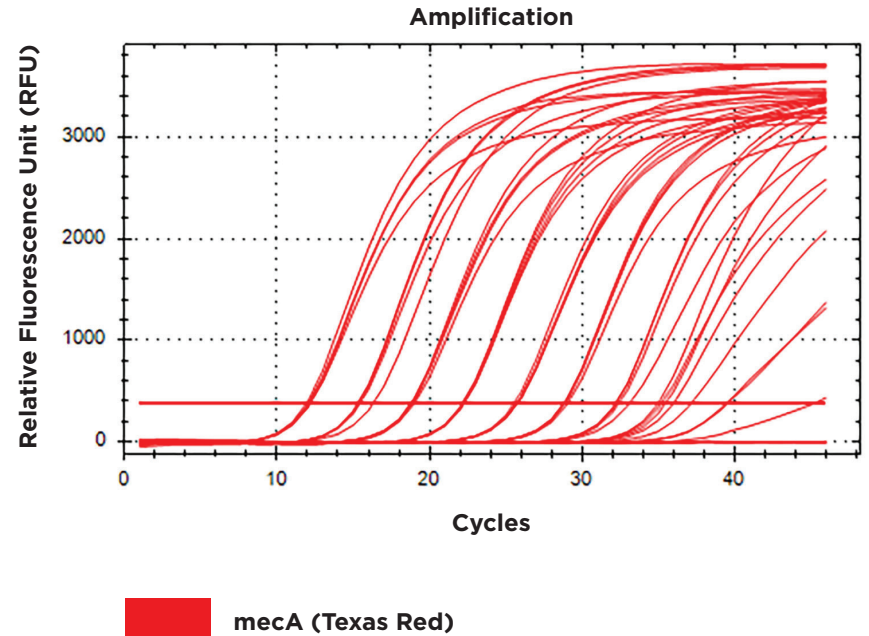


TEST RUN 2 - mecA Probe

- Tested for MRSA at 10⁸ copies/ul to 1 copy/ul and RPP30 at 10² copies/ul.
- Expected result: signals at increasing orders of Cq for FAM (Blue), Texas Red (Red) and similar Cq for VIC (Green).

Well	Fluor	Target	Content	Sample	Cq	Mean	Std. Dev
A02	Texas Red	mecA	Pos Ctrl	10 ⁸	12.16	12.11	0.11022168
B02	Texas Red	mecA	Pos Ctrl	10 ⁸	12.09		
C02	Texas Red	mecA	Pos Ctrl	10 ⁸	12.22		
D02	Texas Red	mecA	Pos Ctrl	10 ⁸	11.96		
E02	Texas Red	mecA	Pos Ctrl	10 ⁷	16.33	15.62	0.48103084
F02	Texas Red	mecA	Pos Ctrl	10 ⁷	15.37		
G02	Texas Red	mecA	Pos Ctrl	10 ⁷	15.31		
H02	Texas Red	mecA	Pos Ctrl	10 ⁷	15.47		
A04	Texas Red	mecA	Pos Ctrl	10 ⁶	18.92	18.9	0.11410409
B04	Texas Red	mecA	Pos Ctrl	10 ⁶	19.05		
C04	Texas Red	mecA	Pos Ctrl	10 ⁶	18.83		
D04	Texas Red	mecA	Pos Ctrl	10 ⁶	18.79		
E04	Texas Red	mecA	Pos Ctrl	10 ⁵	22.17	22.24	0.05745708
F04	Texas Red	mecA	Pos Ctrl	10 ⁵	22.28		
G04	Texas Red	mecA	Pos Ctrl	10 ⁵	22.24		
H04	Texas Red	mecA	Pos Ctrl	10 ⁵	22.29		
A06	Texas Red	mecA	Pos Ctrl	10 ⁴	25.78	25.73	0.11384876
B06	Texas Red	mecA	Pos Ctrl	10 ⁴	25.78		
C06	Texas Red	mecA	Pos Ctrl	10 ⁴	25.79		
D06	Texas Red	mecA	Pos Ctrl	10 ⁴	25.56		
E06	Texas Red	mecA	Pos Ctrl	10 ³	28.91	28.93	0.11630988
F06	Texas Red	mecA	Pos Ctrl	10 ³	28.88		
G06	Texas Red	mecA	Pos Ctrl	10 ³	28.83		
H06	Texas Red	mecA	Pos Ctrl	10 ³	29.10		
A08	Texas Red	mecA	Pos Ctrl	10 ²	33.17	32.53	0.4367806
B08	Texas Red	mecA	Pos Ctrl	10 ²	32.26		
C08	Texas Red	mecA	Pos Ctrl	10 ²	32.45		
D08	Texas Red	mecA	Pos Ctrl	10 ²	32.23		
E08	Texas Red	mecA	Pos Ctrl	10 ¹	36.06	35.47	0.43754607
F08	Texas Red	mecA	Pos Ctrl	10 ¹	35.05		
G08	Texas Red	mecA	Pos Ctrl	10 ¹	35.50		
H08	Texas Red	mecA	Pos Ctrl	10 ¹	35.25		
A10	Texas Red	mecA	Pos Ctrl	10 ⁰	*	40.73	4.18295515
B10	Texas Red	mecA	Pos Ctrl	10 ⁰	37.21		
C10	Texas Red	mecA	Pos Ctrl	10 ⁰	39.63		
D10	Texas Red	mecA	Pos Ctrl	10 ⁰	45.36		

*No Cq observed within 45 cycles.





TEST RUN 2 - RPP Probe

- Tested for MRSA at 10⁸ copies/ul to 1 copy/ul and RPP30 at 10² copies/ul.
- Expected result: signals at increasing orders of Cq for FAM (Blue), Texas Red (Red) and similar Cq for VIC (Green).

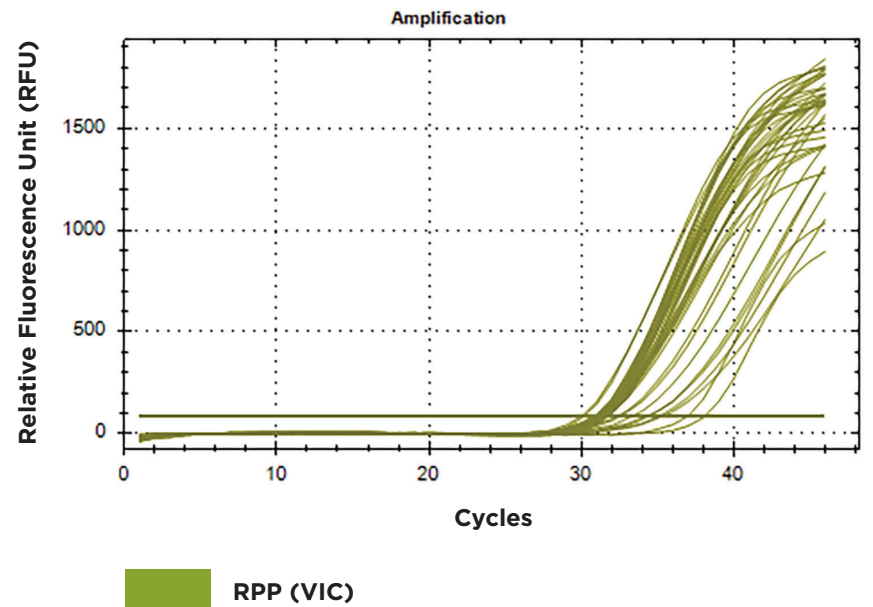
Well	Fluor	Target	Content	Sample	Cq	Mean	Std. Dev
A02	VIC	RPP	Pos Ctrl	10 ⁸	34.30	34.70	0.5095844
B02	VIC	RPP	Pos Ctrl	10 ⁸	35.05		
C02	VIC	RPP	Pos Ctrl	10 ⁸	35.22		
D02	VIC	RPP	Pos Ctrl	10 ⁸	34.22		
E02	VIC	RPP	Pos Ctrl	10 ⁷	30.76	32.19	1.04127248
F02	VIC	RPP	Pos Ctrl	10 ⁷	32.45		
G02	VIC	RPP	Pos Ctrl	10 ⁷	32.28		
H02	VIC	RPP	Pos Ctrl	10 ⁷	33.25		
A04	VIC	RPP	Pos Ctrl	10 ⁶	31.21		
B04	VIC	RPP	Pos Ctrl	10 ⁶	31.44	31.28	0.10821162
C04	VIC	RPP	Pos Ctrl	10 ⁶	31.21		
D04	VIC	RPP	Pos Ctrl	10 ⁶	31.26		
E04	VIC	RPP	Pos Ctrl	10 ⁵	30.80		
F04	VIC	RPP	Pos Ctrl	10 ⁵	30.74	30.90	0.14430563
G04	VIC	RPP	Pos Ctrl	10 ⁵	31.01		
H04	VIC	RPP	Pos Ctrl	10 ⁵	31.03		
A06	VIC	RPP	Pos Ctrl	10 ⁴	30.82		
B06	VIC	RPP	Pos Ctrl	10 ⁴	30.85	30.94	0.19915534
C06	VIC	RPP	Pos Ctrl	10 ⁴	30.85		
D06	VIC	RPP	Pos Ctrl	10 ⁴	31.23		
E06	VIC	RPP	Pos Ctrl	10 ³	31.11		
F06	VIC	RPP	Pos Ctrl	10 ³	31.11	31.22	0.1501539
G06	VIC	RPP	Pos Ctrl	10 ³	31.22		
H06	VIC	RPP	Pos Ctrl	10 ³	31.43		
A08	VIC	RPP	Pos Ctrl	10 ²	31.15		
B08	VIC	RPP	Pos Ctrl	10 ²	31.38	31.32	0.16109622
C08	VIC	RPP	Pos Ctrl	10 ²	31.23		
D08	VIC	RPP	Pos Ctrl	10 ²	31.51		
E08	VIC	RPP	Pos Ctrl	10 ¹	31.65		
F08	VIC	RPP	Pos Ctrl	10 ¹	31.20	31.34	0.22343407
G08	VIC	RPP	Pos Ctrl	10 ¹	31.15		
H08	VIC	RPP	Pos Ctrl	10 ¹	31.35		
A10	VIC	RPP	Pos Ctrl	10 ⁰	30.92		
B10	VIC	RPP	Pos Ctrl	10 ⁰	31.51	31.45	0.35997133
C10	VIC	RPP	Pos Ctrl	10 ⁰	31.70		
D10	VIC	RPP	Pos Ctrl	10 ⁰	31.67		

Negative Control (Only RPP)

Expected result: No results on FAM, TexasRed, and signal on VIC only.

Well	Fluor	Target	Content	Sample	Cq	Mean	Std. Dev
E10	FAM	S. aureus	Neg Ctrl	NC	*	*	*
F10	FAM	S. aureus	Neg Ctrl	NC	*		
E10	Texas Red	mecA	Neg Ctrl	NC	*	*	*
F10	Texas Red	mecA	Neg Ctrl	NC	*		
E10	VIC	RPP	Neg Ctrl	NC	29.96	30.04	0.11599399
F10	VIC	RPP	Neg Ctrl	NC	30.12		

*No Cq observed within 45 cycles.





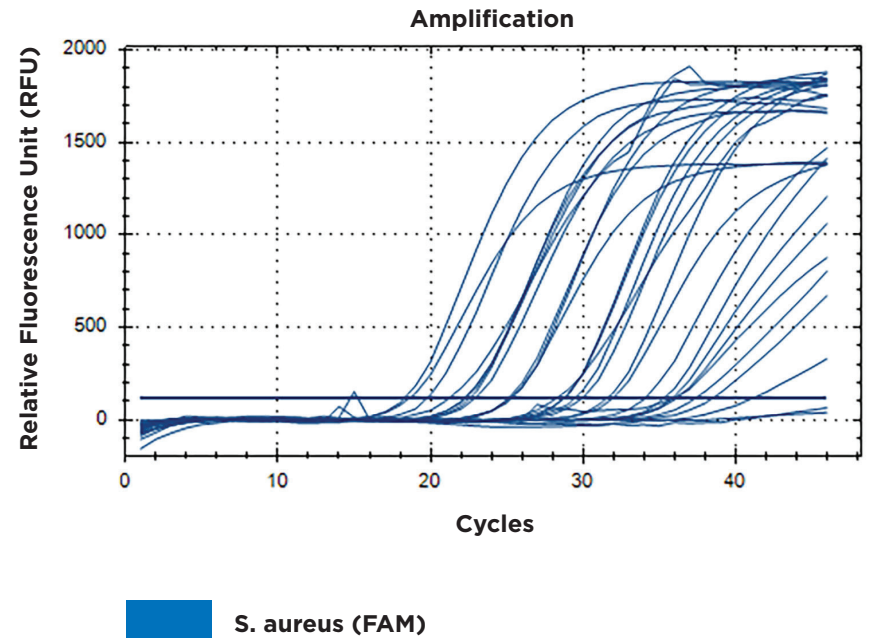
TEST RUN 3 - S. aureus (FAM)

- Tested for MRSA at 10⁶ copies/ul to 1 copy/ul and RPP30 at 10² copies/ul.
- Expected result: signals at increasing orders of Cq for FAM (Blue), Texas Red (Red) and similar Cq for VIC (Green).

MRSA LoD

Well	Fluor	Target	Content	Sample	Cq	Mean	Std. Dev
A02	FAM	S.aureus	Pos Ctrl	10 ⁶	21.23	19.48	1.3321234
B02	FAM	S.aureus	Pos Ctrl	10 ⁶	19.78		
C02	FAM	S.aureus	Pos Ctrl	10 ⁶	18.29		
D02	FAM	S.aureus	Pos Ctrl	10 ⁶	18.62		
E02	FAM	S.aureus	Pos Ctrl	10 ⁵	22.57	22.51	0.315193
F02	FAM	S.aureus	Pos Ctrl	10 ⁵	22.32		
G02	FAM	S.aureus	Pos Ctrl	10 ⁵	22.92		
H02	FAM	S.aureus	Pos Ctrl	10 ⁵	22.22		
A03	FAM	S.aureus	Pos Ctrl	10 ⁴	28.28	25.98	1.5352512
B03	FAM	S.aureus	Pos Ctrl	10 ⁴	25.12		
C03	FAM	S.aureus	Pos Ctrl	10 ⁴	25.33		
D03	FAM	S.aureus	Pos Ctrl	10 ⁴	25.21		
E03	FAM	S.aureus	Pos Ctrl	10 ³	29.46	29.24	0.5944512
F03	FAM	S.aureus	Pos Ctrl	10 ³	29.98		
G03	FAM	S.aureus	Pos Ctrl	10 ³	28.76		
H03	FAM	S.aureus	Pos Ctrl	10 ³	28.75		
A04	FAM	S.aureus	Pos Ctrl	10 ²	36	33.42	2.0450315
B04	FAM	S.aureus	Pos Ctrl	10 ²	34.1		
C04	FAM	S.aureus	Pos Ctrl	10 ²	31.58		
D04	FAM	S.aureus	Pos Ctrl	10 ²	31.99		
E04	FAM	S.aureus	Pos Ctrl	10 ¹	35.31	36.17	0.8782938
F04	FAM	S.aureus	Pos Ctrl	10 ¹	37.38		
G04	FAM	S.aureus	Pos Ctrl	10 ¹	35.86		
H04	FAM	S.aureus	Pos Ctrl	10 ¹	36.14		
A05	FAM	S.aureus	Pos Ctrl	10 ⁰	14.76	31.47	14.534715
B05	FAM	S.aureus	Pos Ctrl	10 ⁰	*		
C05	FAM	S.aureus	Pos Ctrl	10 ⁰	41.14		
D05	FAM	S.aureus	Pos Ctrl	10 ⁰	38.52		

*No Cq observed within 45 cycles.





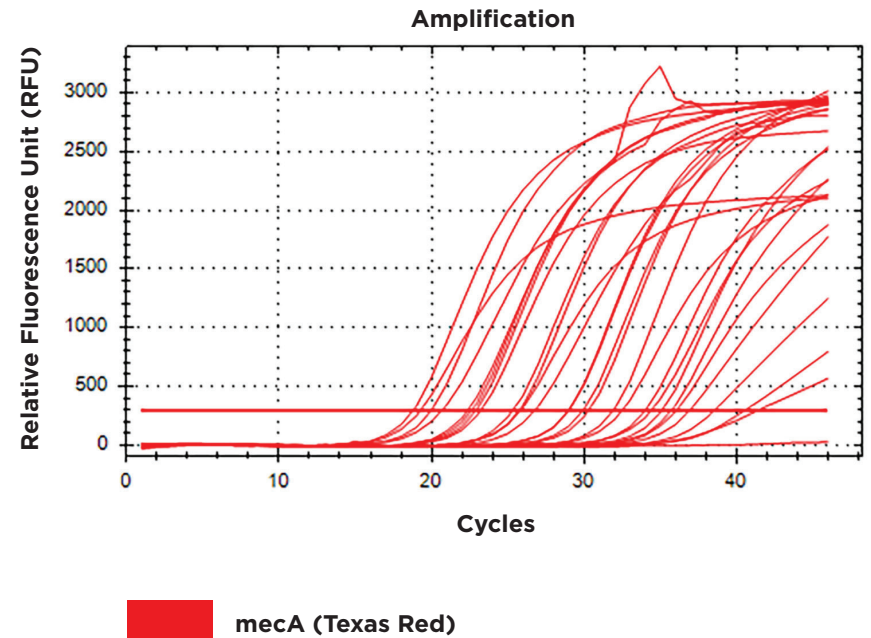
TEST RUN 3 - mecA Resistance (Texas Red)

- Tested for MRSA at 10⁶ copies/ul to 1 copy/ul and RPP30 at 10² copies/ul.
- Expected result: signals at increasing orders of Cq for FAM (Blue), Texas Red (Red) and similar Cq for VIC (Green).

MRSA LoD

Well	Fluor	Target	Content	Sample	Cq	Mean	Std. Dev
A02	Texas Red	mecA	Pos Ctrl	10 ⁶	20.71	19.71	0.8298594
B02	Texas Red	mecA	Pos Ctrl	10 ⁶	20.02		
C02	Texas Red	mecA	Pos Ctrl	10 ⁶	18.81		
D02	Texas Red	mecA	Pos Ctrl	10 ⁶	19.3		
E02	Texas Red	mecA	Pos Ctrl	10 ⁵	22.95	22.81	0.3663722
F02	Texas Red	mecA	Pos Ctrl	10 ⁵	22.65		
G02	Texas Red	mecA	Pos Ctrl	10 ⁵	23.24		
H02	Texas Red	mecA	Pos Ctrl	10 ⁵	22.39		
A03	Texas Red	mecA	Pos Ctrl	10 ⁴	26.79	25.94	0.6126657
B03	Texas Red	mecA	Pos Ctrl	10 ⁴	25.34		
C03	Texas Red	mecA	Pos Ctrl	10 ⁴	25.76		
D03	Texas Red	mecA	Pos Ctrl	10 ⁴	25.88		
E03	Texas Red	mecA	Pos Ctrl	10 ³	29.98	29.59	0.6580921
F03	Texas Red	mecA	Pos Ctrl	10 ³	30.31		
G03	Texas Red	mecA	Pos Ctrl	10 ³	29.04		
H03	Texas Red	mecA	Pos Ctrl	10 ³	29.02		
A04	Texas Red	mecA	Pos Ctrl	10 ²	34.44	33.24	1.1922859
B04	Texas Red	mecA	Pos Ctrl	10 ²	34.06		
C04	Texas Red	mecA	Pos Ctrl	10 ²	31.96		
D04	Texas Red	mecA	Pos Ctrl	10 ²	32.52		
E04	Texas Red	mecA	Pos Ctrl	10 ¹	35.13	35.99	0.7699075
F04	Texas Red	mecA	Pos Ctrl	10 ¹	36.98		
G04	Texas Red	mecA	Pos Ctrl	10 ¹	35.76		
H04	Texas Red	mecA	Pos Ctrl	10 ¹	36.1		
A05	Texas Red	mecA	Pos Ctrl	10 ⁰	*	40.23	1.4866598
B05	Texas Red	mecA	Pos Ctrl	10 ⁰	41.48		
C05	Texas Red	mecA	Pos Ctrl	10 ⁰	40.61		
D05	Texas Red	mecA	Pos Ctrl	10 ⁰	38.58		

*No Cq observed within 45 cycles.





TEST RUN 3 - RPP Internal Control (VIC)

- Tested for MRSA at 10⁶ copies/ul to 1 copy/ul and RPP30 at 10² copies/ul.
- Expected result: signals at increasing orders of Cq for FAM (Blue), Texas Red (Red) and similar Cq for VIC (Green).

MRSA LoD

Well	Fluor	Target	Content	Sample	Cq	Mean	Std. Dev
A02	VIC	RPP	Pos Ctrl	10 ⁶	31.35	31.42	0.4140451
B02	VIC	RPP	Pos Ctrl	10 ⁶	31.13		
C02	VIC	RPP	Pos Ctrl	10 ⁶	31.19		
D02	VIC	RPP	Pos Ctrl	10 ⁶	32.03		
E02	VIC	RPP	Pos Ctrl	10 ⁵	30.44	30.57	0.2508244
F02	VIC	RPP	Pos Ctrl	10 ⁵	30.91		
G02	VIC	RPP	Pos Ctrl	10 ⁵	30.34		
H02	VIC	RPP	Pos Ctrl	10 ⁵	30.59		
A03	VIC	RPP	Pos Ctrl	10 ⁴	30.64	30.76	0.1580121
B03	VIC	RPP	Pos Ctrl	10 ⁴	30.94		
C03	VIC	RPP	Pos Ctrl	10 ⁴	30.62		
D03	VIC	RPP	Pos Ctrl	10 ⁴	30.85		
E03	VIC	RPP	Pos Ctrl	10 ³	31.2	31.22	0.1451344
F03	VIC	RPP	Pos Ctrl	10 ³	31.09		
G03	VIC	RPP	Pos Ctrl	10 ³	31.16		
H03	VIC	RPP	Pos Ctrl	10 ³	31.42		
A04	VIC	RPP	Pos Ctrl	10 ²	31.17	31.2	0.3085998
B04	VIC	RPP	Pos Ctrl	10 ²	31.19		
C04	VIC	RPP	Pos Ctrl	10 ²	30.86		
D04	VIC	RPP	Pos Ctrl	10 ²	31.61		
E04	VIC	RPP	Pos Ctrl	10 ¹	31.04	31.26	0.3370413
F04	VIC	RPP	Pos Ctrl	10 ¹	31.09		
G04	VIC	RPP	Pos Ctrl	10 ¹	31.14		
H04	VIC	RPP	Pos Ctrl	10 ¹	31.76		
A05	VIC	RPP	Pos Ctrl	10 ⁰	33.13	31.67	1.0858909
B05	VIC	RPP	Pos Ctrl	10 ⁰	31.18		
C05	VIC	RPP	Pos Ctrl	10 ⁰	30.59		
D05	VIC	RPP	Pos Ctrl	10 ⁰	31.79		

10² copies/ul of RPP template were spiked in to all the wells.

