

Table S1 Analytical performance of 125 BioFire® FilmArray® Pneumonia plus Panel compared to culture, irrespective microbiological thresholds (n=125).

Bacterial target	No.of specimens				Performances				Cohen's kappa coefficient
	Culture+/ mPCR+	Culture+/ mPCR-	Culture-/ mPCR+	Culture-/ mPCR-	Se (95% CI), %	Sp (95% CI), %	PPV (95% CI), %	NPV (95% CI), %	
<i>Acineterobacter calcoaceticus-baumannii</i> complex	0	0	0	125	NA	100	NA	100	
<i>Enterobacter cloacae</i> complex	3	0	0	122	100	100	100	100	
<i>Escherichia coli</i>	4	1	0	120	80	100	100	99	
<i>Haemophilus influenzae</i>	0	0	1	124	NA	99	0	100	
<i>Klebsiella aerogenes</i>	3	1	0	121	75	100	100	99	
<i>Klebsiella oxytoca</i>	0	0	0	125	NA	100	NA	100	
<i>Klebsiella pneumoniae</i> group	0	0	0	125	NA	100	NA	100	
<i>Moraxella catarrhalis</i>	1	0	0	124	100	100	100	100	
<i>Proteus</i> spp.	2	1	0	122	67	100	100	99	
<i>Pseudomonas aeruginosa</i>	11	1	1	112	92	99	92	98	
<i>Serratia marcescens</i>	1	0	0	124	100	100	100	100	
<i>Streptococcus pneumoniae</i>	1	0	1	123	100	99	50	100	
<i>Staphylococcus aureus</i>	5	1	3	116	83	97	63	99	
<i>Streptococcus pyogenes</i>	0	0	0	125	NA	100	NA	100	
<i>Streptococcus agalactiae</i>	0	0	2	123	100	99	50	100	
<i>Legionella pneumophila</i>	1	0	1	123	100	99	50	100	
TOTAL	32	5	9	1954	86 [75-98]	100 [99-100]	78 [65-91]	100 [100-100]	0.82 [0.72-0.91]

Se, sensibility; Sp, specificity; PPV, positive predictive value; NPV, negative predictive value

Table S2. Analytical performance of BioFire® FilmArray® Pneumonia plus Panel compared to culture, taking into account microbiological thresholds in COVID 19 patients.

Bacterial target	No.of specimens				Performances				Cohen's kappa coefficient
	Culture+/ FA-PP+	Culture+/ FA-PP-	Culture-/ FA-PP+	Culture-/ FA-PP-	Se (95% CI), %	Sp (95% CI), %	PPV (95% CI), %	NPV (95% CI), %	
<i>Acineterobacter calcoaceticus-baumannii</i> complex	0	0	0	106	NA	100	NA	100	
<i>Enterobacter cloacae</i> complex	2	0	1	103	100	99	67	100	
<i>Escherichia coli</i>	2	0	2	102	100	98	50	100	
<i>Haemophilus influenzae</i>	0	0	0	106	NA	100	NA	100	
<i>Klebsiella aerogenes</i>	2	0	1	103	100	99	67	100	
<i>Klebsiella oxytoca</i>	0	0	0	106	NA	100	NA	100	
<i>Klebsiella pneumoniae</i> group	0	0	0	106	NA	100	NA	100	
<i>Moraxella catarrhalis</i>	1	0	0	105	100	100	100	100	
<i>Proteus</i> spp.	2	0	0	104	100	100	100	100	
<i>Pseudomonas aeruginosa</i>	10	0	0	96	100	100	100	100	
<i>Serratia marcescens</i>	1	0	0	105	100	100	100	100	
<i>Streptococcus pneumoniae</i>	0	0	0	106	NA	100	NA	100	
<i>Staphylococcus aureus</i>	2	1	3	100	67	97	40	99	
<i>Streptococcus pyogenes</i>	0	0	0	106	NA	100	NA	100	
<i>Streptococcus agalactiae</i>	0	0	1	105	NA	99	0	100	
<i>Legionella pneumophila</i>	0	0	0	106	NA	100	NA	100	
TOTAL	22	1	8	1669	96 [87-100]	100 [99-100]	73 [58-89]	100 [100-100]	0.83 [0.72-0.94]

Se, sensibility; Sp, specificity; PPV, positive predictive value; NPV, negative predictive value