

			Plaque spot assay of serial dilutions				
			Phenotype				
			PLAQUE FORMING UNITS		LYSIS w/o PFU	NO LYSIS	
			EOP ≥ 0.005	0.005 > EOP > 0	EOP = 0	EOP = 0	
Broth microdilution	MIC (PFU/mL)	PP1450	MIC ≤ 1 × 10 <sup>7</sup>	16	1	1	0
		MIC < 1 × 10 <sup>9</sup>	1	3	0	0	
		MIC ≥ 1 × 10 <sup>9</sup>	0	3	13	3	
			Plaque spot assay of serial dilutions				
			Phenotype				
			PLAQUE FORMING UNITS		LYSIS w/o PFU	NO LYSIS	
			EOP ≥ 0.005	0.005 > EOP > 0	EOP = 0	EOP = 0	
Broth microdilution	MIC (PFU/mL)	PP1777	MIC ≤ 1 × 10 <sup>7</sup>	15	3	0	0
		MIC < 1 × 10 <sup>9</sup>	1	1	2	0	
		MIC ≥ 1 × 10 <sup>9</sup>	0	2	10	7	
			Plaque spot assay of serial dilutions				
			Phenotype				
			PLAQUE FORMING UNITS		LYSIS w/o PFU	NO LYSIS	
			EOP ≥ 0.005	0.005 > EOP > 0	EOP = 0	EOP = 0	
Broth microdilution	MIC (PFU/mL)	PP1792	MIC ≤ 1 × 10 <sup>7</sup>	13	0	0	0
		MIC < 1 × 10 <sup>9</sup>	2	0	5	0	
		MIC ≥ 1 × 10 <sup>9</sup>	3	1	14	3	
			Plaque spot assay of serial dilutions				
			Phenotype				
			PLAQUE FORMING UNITS		LYSIS w/o PFU	NO LYSIS	
			EOP ≥ 0.005	0.005 > EOP > 0	EOP = 0	EOP = 0	
Broth microdilution	MIC (PFU/mL)	PP1797	MIC ≤ 1 × 10 <sup>7</sup>	3	1	2	0
		MIC < 1 × 10 <sup>9</sup>	1	4	9	0	
		MIC ≥ 1 × 10 <sup>9</sup>	2	2	15	2	

Supplementary Data S1: Phage activities on the international *P. aeruginosa* reference panel. For each phage, the number of strains, out of 41, falling into each category-are indicated. The colored cells refer to the susceptibility classification proposed in Figure 4. The strain was considered as resistant “R” when no lysis was observed on the spot plaque assay or when the MIC was above 1 × 10<sup>9</sup> PFU/mL. The strain was defined as susceptible “S” as long as the MIC was below 1 × 10<sup>7</sup> PFU/mL, and when the MIC was between 1 × 10<sup>7</sup> and 1 × 10<sup>9</sup> PFU/mL with an EOP above 0.005. The strain was defined as susceptible at Increased exposure “I” when MIC was between 1 × 10<sup>7</sup> and 1 × 10<sup>9</sup> PFU/mL and an EOP below 0.005 or when a lysis of the spot without PFU was observed on the plaque spot assay.