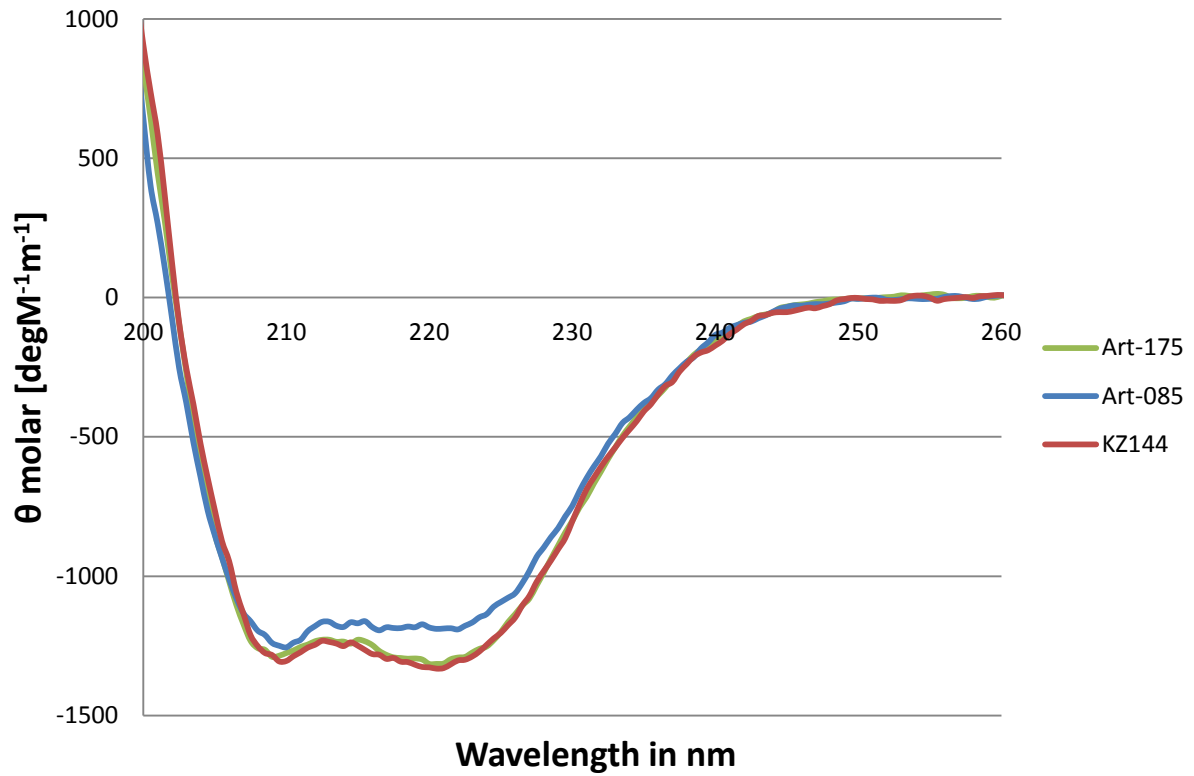


1 **Supplemental figures and tables**

2 **Figure S1A: Far-UV CD spectrum of KZ144, Art-085 and Art-175.** Both Artilysins and
3 endolysin KZ144 do not show significant differences in secondary structure.

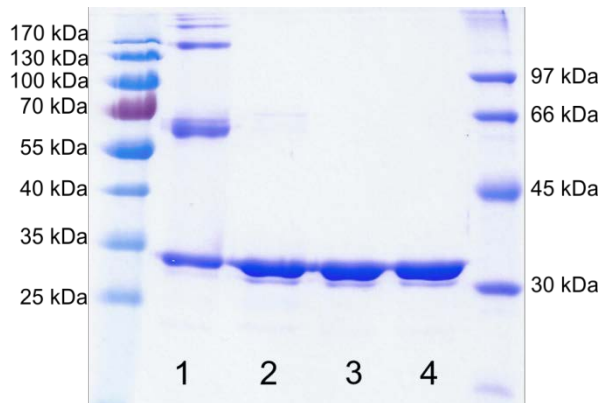
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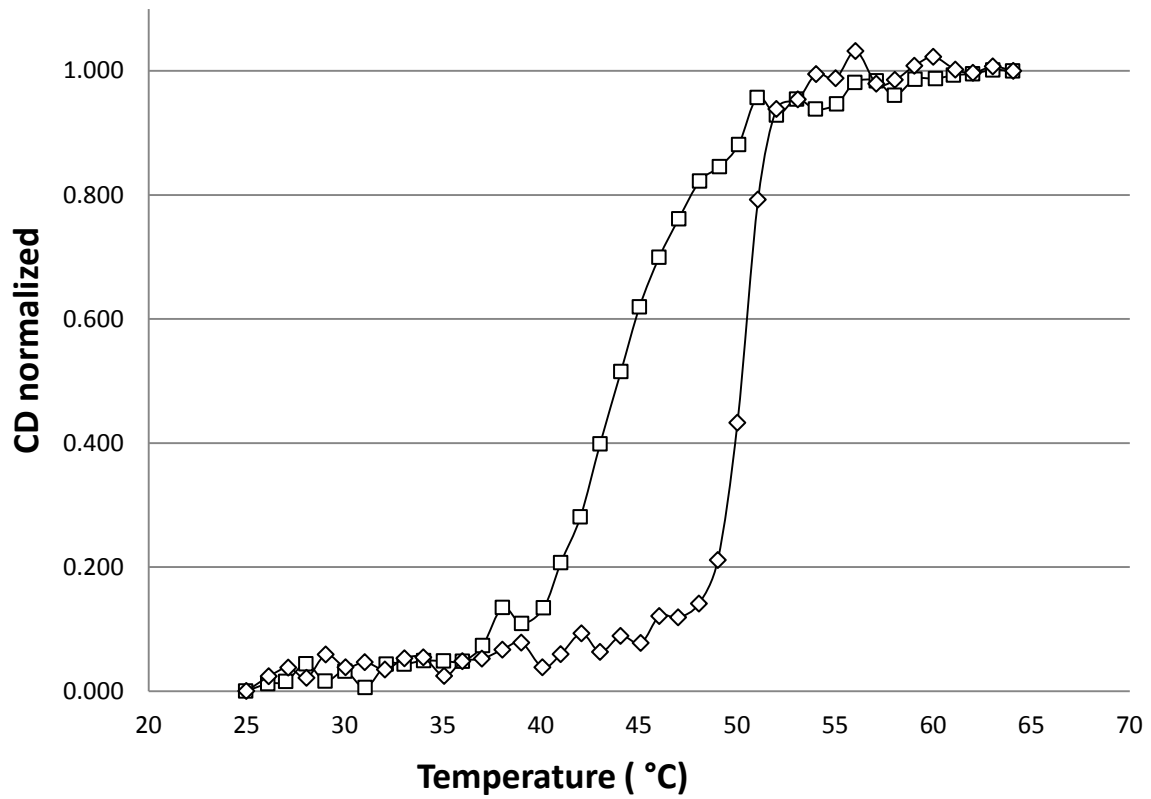
7 **Figure S1B: SDS-PAGE with Art-085 and Art-175 under reducing and non-reducing**
8 **conditions.** Lane 1: Art-085 without β -mercapto-ethanol. Lane 2: Art-085 with β -mercapto-
9 ethanol. Lane 3: Art-175 without β -mercapto-ethanol. Lane 4: Art-175 with β -mercapto-
10 ethanol. Left marker: PageRuler (Thermo Scientific). Right marker: Low Molecular Weight
11 Marker (GE Healthcare)



12

13

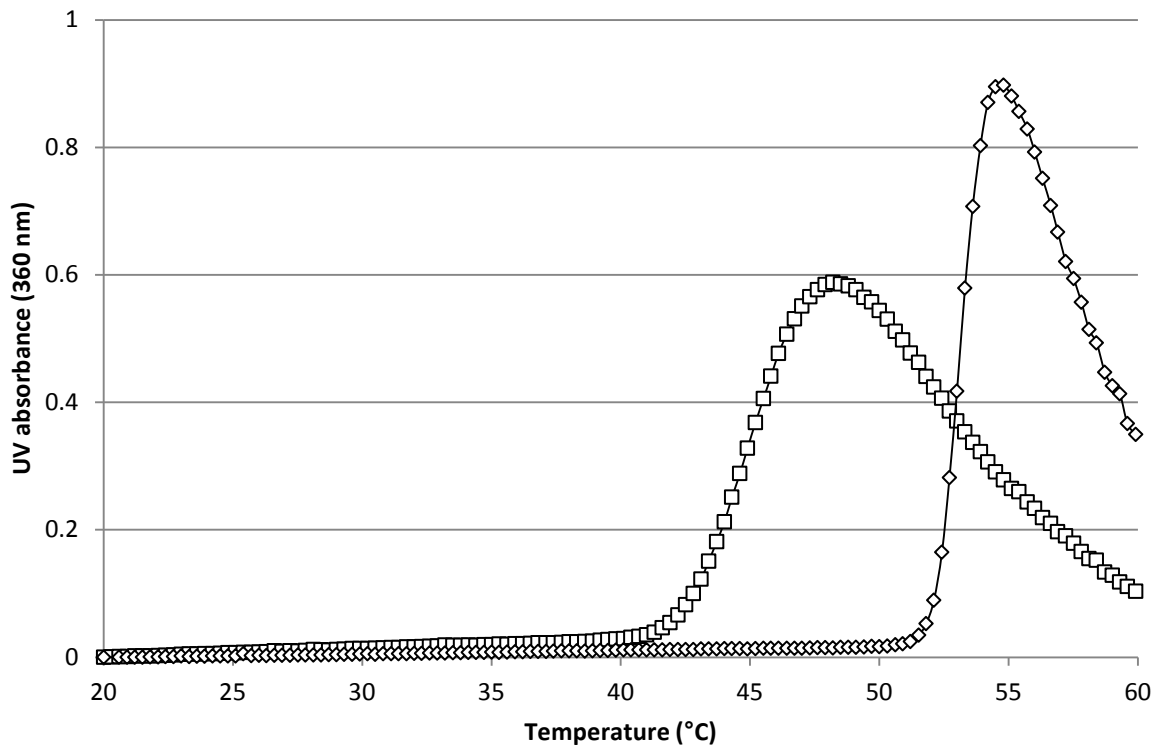
14 **Figure S1C: Normalized CD ellipticity at 220 nm in function of temperature.** Changes in
15 secondary structure (α -helices) of Art-085 (squares) and Art-175 (diamonds) are recorded
16 during heating from 25°C to 65°C. T_m of Art-085 (44.2°C) is lower than T_m of Art-175
17 (50.3°C), and Art-175 unfolds more cooperatively.



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19

20 **Figure S1D: Thermal aggregation curves of Art-085 and Art-175.** Thermally induced
21 aggregation of Art-085 (squares) and Art-175 (diamonds) is recorded by measurement of
22 scattered length by absorption at 360 nm. Aggregation of Art-085 occurs at a lower
23 temperature than for Art-175.



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Commentary to Report N° 1308.1214

The following remarks are not part of the study report. They may only be considered as additional information for the sponsor without responsibility. This commentary is valid without a signature.

Notice

In compliance with EN ISO 10993-5:2009 one specimen of the test item was tested in-vitro for cytotoxicity. Therefor L-929 cells were cultured as monolayer (6th split of DSMZ culture: DSM ACC2, mouse connective tissue fibroblasts clone of strain L). The culture medium (RPMI 1640, lot 1376274) was supplemented with 10% v/v fetal bovine serum (FBS, lot 1159166) and 100 U/ml penicillin and 100 µg/ml streptomycin (lot 1252676). All compounds were purchased from Life Technologies (Invitrogen) GmbH, Darmstadt. The sample was tested diluted 1:5, 1:10, 1:20 and 1:40 in cell culture medium, and was incubated with the cells for two days. Thereafter the degree of cell destruction was evaluated using microscopy and subsequent viability staining (MTT). The suitability of the test system was confirmed by positive and negative controls.

Sample-No.	Test Item	Quantitative Evaluation % viability (ISO)	Qualitative Evaluation reactivity grade (USP)
1308.1214	Proteinlösung Art-175, 5.17 mg/ml in 1xPBS+0.01% Tween 20	93+/- 1.4 %	0 (no reactivity)

Microscopy/Qualitative Evaluation: Not more than 10% of the cells were round and showed discrete intracytoplasmic granules (corresponding to no reactivity), no cell lysis and empty areas were observed.

Quantitative Evaluation: A sample with a cell viability above 90% is considered to be **NON CYTOTOXIC**.

Qualitative: The extract resulted in cell reactivities that characterize the sample to comply with USP<87>.

SUMMARY: The sample is considered to be **NON CYTOTOXIC**.

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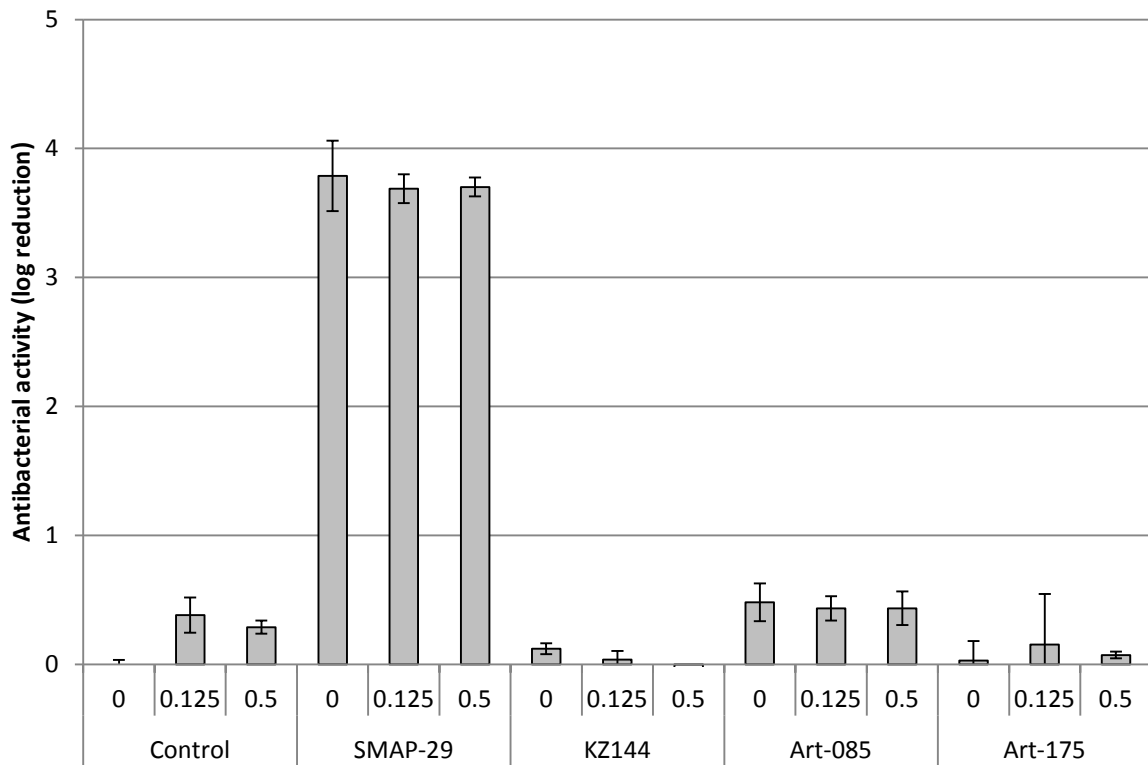
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33 **Figure S3: Bactericidal effect of SMAP-29, KZ144, Art-085 and Art-175 against**
34 ***Staphylococcus DSM 346*.** A cell suspension was treated with equimolar amounts of SMAP-
35 29, KZ144, Art-085 and Art-175 (3 μ M) in the absence and presence of 0.125 and 0.5 mM
36 EDTA. Bacterial reduction after 1h is expressed in log₁₀ relative to the untreated control.
37 Mean values (\pm SD) are shown. Detection limit was 4.88 log.



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Table S1: MIC values of Art-085 and Art-175 against *P. aeruginosa* isolates. A panel of 79 *P. aeruginosa* isolates from diverse sources was used to analyze the MICs for Art-085 and Art-175 in the presence of 0.5 mM EDTA. The clinical (C) or environmental (E) origin is indicated. n.d. = not determined. MDR = multidrug-resistance or the number of resistances according to Table S2.

Strain	MIC ($\mu\text{g/ml}$)		Clinical/ Environmental	MDR*	Source	Source	
	Art-085	Art-175					
Br776	5	4	C	16	Pirnay et al., 2002a	patient isolate	throat
LiCC7	4	4			Lisando GmbH	unknown	
2575	9	4	C		Prof. Gessner, Medical Microbiology University Regensburg, Germany	patient isolate	
2747	4	4	C		Prof. Gessner, Medical Microbiology University Regensburg, Germany	patient isolate	
2572	8	4	C		Prof. Gessner, Medical Microbiology University Regensburg, Germany	patient isolate	
03.07-1.61	8	4	C		Prof. Gessner, Medical Microbiology University Regensburg, Germany	patient isolate	
03.10-181	6	4	C		Prof. Gessner, Medical Microbiology University Regensburg, Germany	patient isolate	
03.09-014	4	4	C		Prof. Gessner, Medical Microbiology University Regensburg, Germany	patient isolate	
03.09.177	6	4	C		Prof. Gessner, Medical Microbiology University Regensburg, Germany	patient isolate	
03.08-704	12	4	C		Prof. Gessner, Medical Microbiology University Regensburg, Germany	patient isolate	
Br257	4	4	E	8	Pirnay et al., 2002a	plant	rhizosphere
CFA	12.5	4			Military Hospital Nederoverheembeek, Brussels, Belgium	unknown	
GHb15	7	4	C		Prof. J. Verhaegen, UZ Gasthuisberg, Leuven, Belgium	patient isolate	
Krylov	7	4	C		Prof. V. Krylov, Mechnikov Research Institute for Vaccines and Sera, Russia	patient isolate	stool sample
Bo546	12.5	4	C	16	Pirnay et al., 2002a	patient isolate	burn wound
Bo548	8	4	C	12	Pirnay et al., 2002a	patient isolate	burn wound
Br908	6	4	C	9	Pirnay et al., 2002a	patient isolate	throat
Bu004	8	4	C	9	Pirnay et al., 2002a	patient isolate	throat
Bu007	16	4	C		Pirnay et al., 2002a	patient isolate	burn wound
C	4	4	C	10	Pirnay et al., 2002a	patient isolate	cystic fibrosis

C17	7	4	E	9	Pirnay et al., 2002a	hospital environment	
Is580	5	4	C	15	Pirnay et al., 2002a	patient isolate	burn wound
LMG2107	12.5	4	E	9	Pirnay et al., 2002a	shallow well	
LMG5031	5	4	E	9	Pirnay et al., 2002a	Chinese evergreen	
LMG14083	9	4	E		Pirnay et al., 2002a	unknown	
SG17M	5	4	E		Pirnay et al., 2002a	river water	
So099	12.5	4	C		Pirnay et al., 2002a	patient isolate	burn wound
US449	4	4	C	9	Pirnay et al., 2002a	patient isolate	sputum
C13	4	4	C		Pirnay et al., 2002a	patient isolate	cystic fibrosis
Lo053	9	4	C		Pirnay et al., 2002b	patient isolate	burn wound
Alexis3	6	4	C		Lisando GmbH	dog	otitis
ATCC 27853	7.5	4	C		Prof. Gessner, Medical Microbiology University Regensburg, Germany	unknown	
MH57	9	4	C	multiresistant	Prof. Schobert, Technical University Braunschweig, Germany	patient isolate	urinary tract infection
GH06_25135	<5	4	C		Prof. Schobert, Technical University Braunschweig, Germany	patient isolate	chronic wound infection
BT73	8	4	C		Prof. Schobert, Technical University Braunschweig, Germany	patient isolate	chronic lung infection/cystic fibrosis
11161	4	4			Prof. Tateda, University Toho, Tokyo, Japan	unknown	
11159	6	4			Prof. Tateda, University Toho, Tokyo, Japan	unknown	
11170	4	4			Prof. Tateda, University Toho, Tokyo, Japan	unknown	
Colja 6	8	4	C		Lisando GmbH	dog	otitis
va32824_2	n.d.	4	C		Lisando GmbH	patient isolate	inguinal region
va4672	n.d.	4	C		Lisando GmbH	dog	otitis
va49882	n.d.	4	C		Lisando GmbH	dog	otitis
PAO1	5	5	C	9	Pirnay et al., 2002a (laboratory reference strain)	patient isolate	stool sample
Br667	>20	6	C	19	Pirnay et al., 2002a	patient isolate	burn wound
2573	6	6	C		Prof. Gessner, Medical Microbiology University Regensburg, Germany	patient isolate	
Be136	12.5	6	C	9	Pirnay et al., 2002a	patient isolate	sputum
Bo559	15	6	C		Pirnay et al., 2002a	patient isolate	burn wound
Br229	>15	6	E	18	Pirnay et al., 2002a	hospital	

Strain	CFU	Days	Site	Resistance	Source	Environment	Specimen
Br906	12.5	6	C	9	Pirnay et al., 2002a	environment	patient isolate nose
Is573	>15	6	C	19	Pirnay et al., 2002a	environment	patient isolate burn wound
Li004	>15	6	C		Pirnay et al., 2002a	environment	patient isolate cystic fibrosis
PhDW6	7.5	6	C		Pirnay et al., 2002a	environment	patient isolate wound
Pr335	>15	6	E		Pirnay et al., 2002a	environment	hospital environment
TuD199	>15	6	C		Pirnay et al., 2002a	environment	patient isolate sputum
PAK	9	6	E		Prof. L. Debarbieux, Institut Pasteur, Paris, France	environment	unknown
Bobby 6	8	6	C		Lisando GmbH	environment	dog otitis
MH39	15	6	C	multiresistant	Prof. Schobert, Technical University Braunschweig, Germany	environment	patient isolate urinary tract infection
GH06_41910	<5	6	C		Prof. Schobert, Technical University Braunschweig, Germany	environment	patient isolate chronic wound infection
va32872_1	n.d.	6	C		Lisando GmbH	environment	patient isolate nose
3-8 1.68	4	8	C		Prof. Gessner, Medical Microbiology University Regensburg, Germany	environment	patient isolate
K	9	8			Military Hospital Nederoverheembeek, Brussels, Belgium	environment	unknown
US448	15	8	C	9	Pirnay et al., 2002a	environment	patient isolate urine
Br680	10	8	C	9	Pirnay et al., 2002a	environment	patient isolate burn wound
PA6	10	8	C	13	Pirnay et al., 2002a	environment	patient isolate urine
PAO23	>15	8	E		Pirnay et al., 2002a	environment	river water
PT31M	8	8	E		Pirnay et al., 2002a	environment	drinking water
11177	12	8			Prof. Tateda, University Toho, Tokyo, Japan	environment	unknown
B10-03.07.159	4	10	C		Prof. Gessner, Medical Microbiology University Regensburg, Germany	environment	patient isolate
Aa249	>15	10	C		Pirnay et al., 2002a	environment	patient isolate burn wound
Be128	15	10	C	9	Pirnay et al., 2002a	environment	patient isolate sputum
Li009	13	10	C	8	Pirnay et al., 2002a	environment	patient isolate cystic fibrosis
Aa245	>15	12	C		Pirnay et al., 2002b	environment	patient isolate burn wound
Bobby 5	6	12	C		Lisando GmbH	environment	dog otitis
B11-09.07.229	20	12	C		Prof. Gessner, Medical Microbiology University Regensburg, Germany	environment	patient isolate cystic fibrosis
ur08107	n.d.	20	C		Prof. Gessner, Medical Microbiology University Regensburg	environment	patient isolate urinary tract infection

Tu843	15	22			Military Hospital Nederoverheembeek, Brussels, Belgium	unknown
11178	12	22			Prof. Tateda, University Toho, Tokyo, Japan	unknown
MH27	>20	24	C	multiresistant	Prof. Schobert, Technical University Braunschweig, Germany	patient isolate urinary tract infection
1631	20	28			Prof. Tateda, University Toho, Tokyo, Japan	unknown

Table S2: Comparison of MIC-values for Art-175 and commonly used antibiotics against a panel of clinical MDR *P. aeruginosa* isolates.

The MIC of Art-175 (in $\mu\text{g/ml}$) was determined for *P. aeruginosa* PAO1 and 24 clinical and environmental isolates in Mueller-Hinton medium with 0.5 mM EDTA. Art-175 was dialyzed against 20 mM HEPES 0.5 M NaCl pH 7.4 and tested at a concentration between 4 and 15 $\mu\text{g/ml}$. Plates were incubated for 18h at 37°C. In addition, the susceptibility (in $\mu\text{g}/\mu\text{l}$; S = sensitive (green), I = intermediate (yellow) and R = resistant (red)) of these strains for 12 therapeutically used antibiotics was indicated, using the CLSI breakpoint system (CLSI M100-S24): PIP = piperacillin, TZP = piperacillin + tazobactam, CTX = cefotaxime; CAZ = ceftazidime, FEP = cefepime, MEM = meropenem, AMK = amikacin, GEN = gentamicin, TOB = tobramycin, CIP = ciprofloxacin, NOR = norfloxacin, OFX = ofloxacin. The different strains are ranked according to the number of resistances. Averages of (at least) three repeats are presented here.

MIC (µg/ml)

Art-175	Antibiotics												
	PIP	TZP	CTX	CAZ	FEP	MEM	AMK	GEN	TOB	CIP	NOR	OFX	
Br667	6	≥128 (R)	≥128 (R)	≥64 (R)	8 (S)	32 (R)	2 (S)	≥64 (R)	≥16 (R)	≥16 (R)	≥4 (R)	≥16 (R)	≥8 (R)
Is573	6	≥128 (R)	≥128 (R)	≥64 (R)	16 (I)	≥64 (R)	≥16 (R)	≥64 (R)	≥16 (R)	4 (S)	≥4 (R)	≥16 (R)	≥8 (R)
Br229	6	≥128 (R)	≥128 (R)	≥64 (R)	4 (S)	8 (S)	1 (S)	≥64 (R)	≥16 (R)	≥16 (R)	≥4 (R)	≥16 (R)	≥8 (R)
Br776	4	≥128 (R)	≥128 (R)	≥64 (R)	≥64 (R)	32 (R)	≥16 (R)	16 (S)	4 (S)	≤1 (S)	2 (I)	8 (I)	≥8 (R)
Bo546	4	≥128 (R)	64 (S)	≥64 (R)	≥64 (R)	≥64 (R)	≤0,25 (S)	≥64 (R)	≥16 (R)	≥16 (R)	≤0,25 (S)	≤0,5 (S)	1 (S)
Is580	4	≥128 (R)	64 (S)	≥64 (R)	32 (R)	4 (S)	1 (S)	≤2 (S)	≥16 (R)	≥16 (R)	2 (I)	4 (S)	≥8 (R)
Pa6	8	≥128 (R)	≥128 (R)	32 (I)	4 (S)	8 (S)	≤0,25 (S)	≤2 (S)	≥16 (R)	≥16 (R)	0.5 (S)	≤0,5 (S)	1 (S)
Bo548	8	≥128 (R)	64 (S)	≥64 (R)	32 (R)	8 (S)	2 (S)	8 (S)	4 (S)	≤1 (S)	≤0,25 (S)	1 (S)	2 (S)
C	4	≤4 (S)	≤4 (S)	8 (S)	4 (S)	8 (S)	≤0,25 (S)	4 (S)	≥16 (R)	8 (I)	1 (S)	2 (S)	4 (I)
Li012	8	≤4 (S)	≤4 (S)	4 (S)	2 (S)	≤1 (S)	≤0,25 (S)	≤2 (S)	≤1 (S)	≤1 (S)	2 (I)	4 (S)	≥8 (R)
Us449	4	8 (S)	8 (S)	32 (I)	4 (S)	2 (S)	1 (S)	4 (S)	2 (S)	≤1 (S)	≤0,25 (S)	≤0,5 (S)	2 (S)
Us448	8	≤4 (S)	≤4 (S)	32 (I)	4 (S)	2 (S)	≤0,25 (S)	4 (S)	2 (S)	≤1 (S)	≤0,25 (S)	≤0,5 (S)	1 (S)
Be128	10	8 (S)	8 (S)	32 (I)	4 (S)	2 (S)	4 (S)	≤2 (S)	2 (S)	≤1 (S)	≤0,25 (S)	≤0,5 (S)	1 (S)
Br908	4	8 (S)	8 (S)	32 (I)	4 (S)	2 (S)	1 (S)	≤2 (S)	≤1 (S)	≤1 (S)	0.5 (S)	≤0,5 (S)	2 (S)
Bu004	4	≤4 (S)	≤4 (S)	16 (I)	≤1 (S)	≤1 (S)	0.5 (S)	≤2 (S)	≤1 (S)	≤1 (S)	≤0,25 (S)	≤0,5 (S)	2 (S)
C18	6	≤4 (S)	≤4 (S)	16 (I)	≤1 (S)	≤1 (S)	≤0,25 (S)	≤2 (S)	≤1 (S)	≤1 (S)	≤0,25 (S)	≤0,5 (S)	1 (S)
PAO1	6	≤4 (S)	≤4 (S)	16 (I)	2 (S)	2 (S)	≤0,25 (S)	≤2 (S)	≤1 (S)	≤1 (S)	≤0,25 (S)	≤0,5 (S)	1 (S)
LMG 5031	5	8 (S)	8 (S)	32 (I)	2 (S)	2 (S)	≤0,25 (S)	≤2 (S)	≤1 (S)	≤1 (S)	≤0,25 (S)	≤0,5 (S)	0.5 (S)
LMG 2107	4	≤4 (S)	≤4 (S)	16 (I)	2 (S)	≤1 (S)	≤0,25 (S)	≤2 (S)	≤1 (S)	≤1 (S)	≤0,25 (S)	≤0,5 (S)	1 (S)
Be136	6	8 (S)	8 (S)	32 (I)	4 (S)	2 (S)	≤0,25 (S)	≤2 (S)	≤1 (S)	≤1 (S)	≤0,25 (S)	≤0,5 (S)	1 (S)
Br906	6	8 (S)	8 (S)	32 (I)	4 (S)	2 (S)	≤0,25 (S)	≤2 (S)	≤1 (S)	≤1 (S)	≤0,25 (S)	≤0,5 (S)	1 (S)
C17	4	≤4 (S)	≤4 (S)	8 (S)	≤1 (S)	≤1 (S)	≤0,25 (S)	≤2 (S)	≤1 (S)	≤1 (S)	≤0,25 (S)	≤0,5 (S)	1 (S)
Br680	8	≤4 (S)	≤4 (S)	4 (S)	≤1 (S)	≤1 (S)	≤0,25 (S)	≤2 (S)	≤1 (S)	≤1 (S)	≤0,25 (S)	≤0,5 (S)	0.5 (S)
Br257	4	≤4 (S)	≤4 (S)	8 (S)	≤1 (S)	≤1 (S)	≤0,25 (S)	≤2 (S)	≤1 (S)	≤1 (S)	≤0,25 (S)	≤0,5 (S)	≤0,25 (S)
Li009	10	≤4 (S)	≤4 (S)	4 (S)	4 (S)	≤1 (S)	≤0,25 (S)	4 (S)	2 (S)	≤1 (S)	≤0,25 (S)	≤0,5 (S)	0.5 (S)

Table S3: MIC values of Art-085 and Art-175 against a broad panel of bacterial species. Gram-negative species belonging to the families Pseudomonadaceae, Enterobacteriaceae and Bacteroidaceae, and diverse Gram-positive species were tested for their susceptibility to up to at least 20 µg/ml Art-085 and Art-175 in the absence of EDTA. Growth conditions and source of the strains are indicated.

Species	Strain	MIC (µg/ml)		Growth conditions	Source
		Art-085	Art-175		
Gram-negative species					
Pseudomonads					
<i>Pseudomonas aeruginosa</i>	PAO1	18	10	37°C (18h)	Pirnay et al., 2002a (Laboratory reference strain)
<i>Pseudomonas aeruginosa</i>	GHb15	12	10	37°C (18h)	Prof. J. Verhaegen, UZ Gasthuisberg, Leuven, Belgium
<i>Pseudomonas aeruginosa</i>	SG17M	7.5	7.5	37°C (18h)	Pirnay et al., 2002a
<i>Pseudomonas aeruginosa</i>	Alexis3	16	7.5	37°C (18h)	Lisando GmbH
<i>Pseudomonas aeruginosa</i>	FRDI	10	7.5	37°C (18h)	Prof. M. Schobert, Technical University Braunschweig, Germany
<i>Pseudomonas aeruginosa</i>	11160	7.5	5	37°C (18h)	Prof. K. Tateda, University of Toho, Tokyo, Japan
<i>Pseudomonas putida</i>	RD3SR1	18	16	37°C (18h)	Prof. R. De Mot, Centre of Microbial and plant genetics, Leuven, Belgium
<i>Pseudomonas putida</i>	RW1P1	20	18	37°C (18h)	Prof. R. De Mot, Centre of Microbial and plant genetics, Leuven, Belgium
<i>Pseudomonas putida</i>	RW1P2	20	18	37°C (18h)	Prof. R. De Mot, Centre of Microbial and plant genetics, Leuven, Belgium
<i>Pseudomonas putida</i>	RW5P2	20	18	37°C (18h)	Prof. R. De Mot, Centre of Microbial and plant genetics, Leuven, Belgium
<i>Pseudomonas syringae</i>	DSM 50281	5	5	30°C (18h)	German Collection of Microorganisms and Cell Cultures
<i>Pseudomonas syringae</i>	DSM 10604	7.5	7.5	30°C (18h)	German Collection of Microorganisms and Cell Cultures
Enterobacteriaceae					
<i>Escherichia coli</i> O26:H11	RKI 07-05313	>20	>20	37°C (18h)	Dr. A. Fruth, Robert Koch Institute, Wernigerode, Germany
<i>Escherichia coli</i> O103:H2	RKI 06-08410	>20	>20	37°C (18h)	Dr. A. Fruth, Robert Koch Institute, Wernigerode, Germany
<i>Escherichia coli</i> O111:H-	09-06443	>20	>20	37°C (18h)	Dr. A. Fruth, Robert Koch Institute, Wernigerode, Germany
<i>Escherichia coli</i> O145:H-	06-05741	>20	>20	37°C (18h)	Dr. A. Fruth, Robert Koch Institute, Wernigerode, Germany
<i>Escherichia coli</i> O157:H7	RKI 03-07953	>20	>20	37°C (18h)	Dr. A. Fruth, Robert Koch Institute, Wernigerode, Germany
<i>Salmonella</i> Typhimurium	DSM 17058	>20	>20	37°C (18h)	German Collection of Microorganisms and Cell Cultures

<i>Salmonella</i> Enteritidis	DSM 17420	14	>20	37°C (18h)	German Collection of Microorganisms and Cell Cultures
<i>Proteus mirabilis</i>	B12-11.20.0190	>20	>20	37°C (18h)	Prof. Gessner, Medical Microbiology University Regensburg, Germany
<i>Klebsiella pneumoniae</i>	ATCC 13883	7.5	10	37°C (18h)	ATCC
Bacteroidaceae					
<i>Bacteroides fragilis</i>	DSM 2151	>20	>20	37°C (20h), anaerobic	German Collection of Microorganisms and Cell Cultures
<i>Bacteroides fragilis</i>	DSM 9669	>20	>20	37°C (20h), anaerobic	German Collection of Microorganisms and Cell Cultures
Gram-positive species					
<i>Staphylococcus aureus</i>	DSMZ 346	>20	>20	37°C (18h)	German Collection of Microorganisms and Cell Cultures
<i>Staphylococcus epidermidis</i>	DSM 20041	>20	>20	37°C (18h)	German Collection of Microorganisms and Cell Cultures
<i>Streptococcus pneumoniae</i>	DSM 14378	>20	>20	37°C (20h), microaerophilic	German Collection of Microorganisms and Cell Cultures
<i>Listeria monocytogenes</i>	DSMZ 15675	>20	>20	37°C (18h)	German Collection of Microorganisms and Cell Cultures
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i>	DSM 347	>20	>20	37°C (18h)	German Collection of Microorganisms and Cell Cultures
<i>Enterococcus faecalis</i>	DSM 6134	>20	>20	37°C (20h), microaerophilic	German Collection of Microorganisms and Cell Cultures
<i>Clostridium perfringens</i>	DSM 756	>20	>20	37°C (20h), anaerobic	German Collection of Microorganisms and Cell Cultures
Yeast					
<i>Candida albicans</i>	DSM 1386	>20	>20	25°C (40h)	German Collection of Microorganisms and Cell Cultures

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2. **Pirnay J-P, De Vos D, Mossialos D, Vanderkelen A, Cornelis P, Zizi M.** 2002b. Analysis of the *Pseudomonas aeruginosa oprD* gene from clinical and environmental isolates. *Environ. Microbiol.* **4**:872-882.