

bioFILM PA™ Antimicrobial Susceptibility Kit

A breakthrough in susceptibility testing

THE PROBLEM

- Biofilms are the natural state of micro-organisms; over 60% of all human infections and virtually all chronic, recurrent, and medical device related infections are caused by biofilms.
- In the biofilm state, microorganisms are typically more resistant to antibiotics and biocides, in some cases, up to **4,000 times** more resistant than the same organism in a free-floating state.
- **No** current diagnostics or antibiotics are approved for use against biofilm organisms.
- Physicians commonly use combination antibiotics **without** any susceptibility test guidance.

THE SOLUTION

- Conduct sensitivity testing using the organism in a **biofilm state**.
- Incorporate **combination antibiotics** into the sensitivity test to provide guidance to physicians.

THE PRODUCT

- bioFILM PA™ is designed to provide **improved susceptibility information** for *Pseudomonas aeruginosa* infections, including **Cystic Fibrosis** lung infections.
- Other applications include Pneumonia, burn/wound infections and other chronic *Pseudomonas* infections.

TYPICAL bioFILM PA™ RESULTS

Planktonic - MIC											
Antibiotic	SIR	Antibiotic	SIR	Antibiotic	SIR	Antibiotic	SIR	Antibiotic	SIR	Antibiotic	SIR
GM/AZT	S	AK/AZT	S	TO/AZT	S	T/S/P/T	S	CP/P/T	S	TO	R
GM/CAZ	S	AK/CAZ	S	TO/CAZ	S	T/S/MER	S	C/MER	S	T/S	I
GM/P/T	S	AK/P/T	S	TO/P/T	S	T/S/AZT	S	C/CAZ	S	C	S
GM/CPE	S	AK/CPE	S	TO/CPE	S	T/S/CAZ	S	AK	I	CP	I
GM/MER	S	AK/MER	S	TO/MER	S	CP/AZT	S	P/T	S	CAZ	S
GM/CP	S	AK/CP	S	TO/CP	S	CP/CT	S	AZT	S	CPE	S
GM/T/S	I	AK/T/S	I	TO/T/S	S	CP/T/S	S	CT	S	MER	S
GM/CT	S	AK/CT	S	TO/CT	S	CP/MER	S	GM	R		
Biofilm - MBEC											
Antibiotic	SIR	Antibiotic	SIR	Antibiotic	SIR	Antibiotic	SIR	Antibiotic	SIR	Antibiotic	SIR
GM/AZT	R	AK/AZT	S	TO/AZT	I	T/S/P/T	R	CP/P/T	R	TO	R
GM/CAZ	S	AK/CAZ	S	TO/CAZ	S	T/S/MER	R	C/MER	I	T/S	R
GM/P/T	I	AK/P/T	S	TO/P/T	S	T/S/AZT	S	C/CAZ	R	C	R
GM/CPE	R	AK/CPE	R	TO/CPE	S	T/S/CAZ	R	AK	R	CP	R
GM/MER	R	AK/MER	S	TO/MER	R	CP/AZT	R	P/T	R	CAZ	R
GM/CP	R	AK/CP	R	TO/CP	S	CP/CT	S	AZT	R	CPE	R
GM/T/S	R	AK/T/S	R	TO/T/S	S	CP/T/S	R	CT	R	MER	R
GM/CT	R	AK/CT	I	TO/CT	I	CP/MER	R	GM	R		

Goes **beyond** current tests by providing susceptibility information for:

Single and combination antibiotics

Planktonic and biofilm states in the same assay