

Product Data Sheet

Antibiotic Panel 19_60

Cat. #: AB1960

Product Description:

The Antibiotic Panel 19_60 is a flat bottomed 96 plate designed for the measurement of bacterial growth by OD600 with compatible spectrophotometer plate readers. A total of 19 antibiotics and 60 antibiotic concentrations are arrayed on the plate. Plates are provided in a desiccated format and simply require the addition of culture media inoculated with a bacterial sample of interest.

Product Specifications:

The Antibiotic Panel 19_60 contains each of the following antibiotics and concentrations in each of the indicated wells.

* Antibiotic concentrations based on 200ul inoculation volume.

Antibiotic	*ug/ml	Well	Antibiotic	*ug/ml	Well
Nitrofurantoin	32	B1	Tetracycline	2	F4
	128	C1		4	G4
Ciprofloxacin	1	D1		8	H4
	4	E1		16	A5
Meropenem	1	F1	8	B5	
	2	G1	16	C5	
	4	H1	32	D5	
	8	A2	2,38	E5	
Ampicillin/Sulbactam	8,4	B2	Trimethoprim/Sulfamethoxazole	4,76	F5
	32,16	C2	Cefazolin	2	G5
Levofloxacin	1	D2		8	H5
	2	E2		16	A6
	4	F2		32	B6
	8	G2	Cefepime	1	C6
Ceftriaxone	1	H2		2	D6
	4	A3		4	E6
	8	B3		8	F6
	64	C3	16	G6	
Vancomycin	1	D3	32	H6	
	2	E3	4	A7	
	4	F3	8	B7	
	16	G3	16	C7	
Piperacillin /Tazobactam	32	H3	32	D7	
	16,4	A4	Gentamicin	4	E7
Cefoxitin	128,4	B4	Amoxicillin/Clavulanate	16	F7
	4	C4		8,4	G7
	8	D4	32,16	H7	
Cefaclor	32	E4	Phosphomycin	64	A8
	Ceftazidime			256	B8
8				C8	
			32	D8	

For Investigational Use Only. The performance characteristics of this product have not been established.

Procedure:

Researchers are advised to optimize the use of this product and validate the performance of their assay. The following procedure is a recommended starting point.

1) Pre-culture: Inoculate growth media with bacterial cells of interest and incubate until satisfactory growth is observed (6-24 hours). Optimum results are achieved if cells are in log phase of growth.

2) Dilute cells: Obtain a cell density reading and adjust cells to a final OD600 concentration of 0.0008 to 0.0004. Alternatively adjust to .0166 to 0.008 based on a McFarland reading.

Important: Use Mueller Hinton 2 growth media (cation adjusted) (MH).

3) Inoculate antibiotic plate: Inoculate each well with 200 ul of properly diluted cell suspension in MH growth media.

4) Incubate plate: Cover plate with a suitable gas permeable membrane such as “Breathe Easier” and incubate at 35-37c for 12-24 hours. Do not stack multiple plates.

5) Measure: Remove cover and measure OD600 with a compatible spectrophotometer plate reader.

6) Analyze: Compare OD600 readings to established cut off values to determine if the sample grows in each of the included antibiotics.

Storage:

Store at or below 78 F. Avoid direct light.

References:

- 1) Clinical Laboratory and Standards Institute. “Performance Standards for Antimicrobial Susceptibility Testing”. M100, 29th ed, January 2019.