



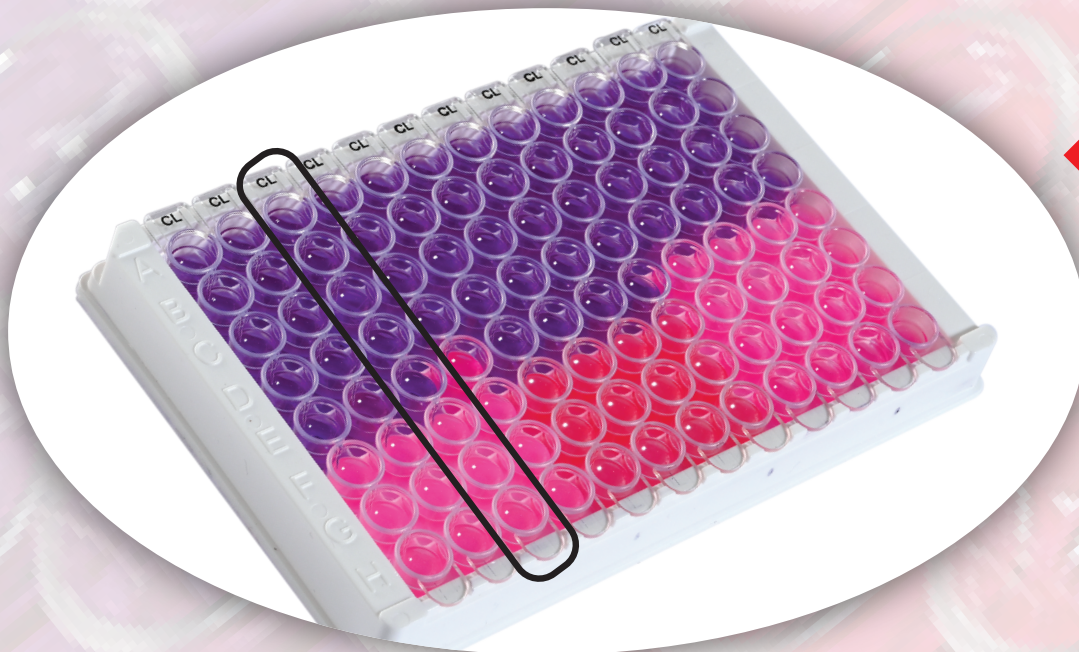
HiMIC™ Plate Kit



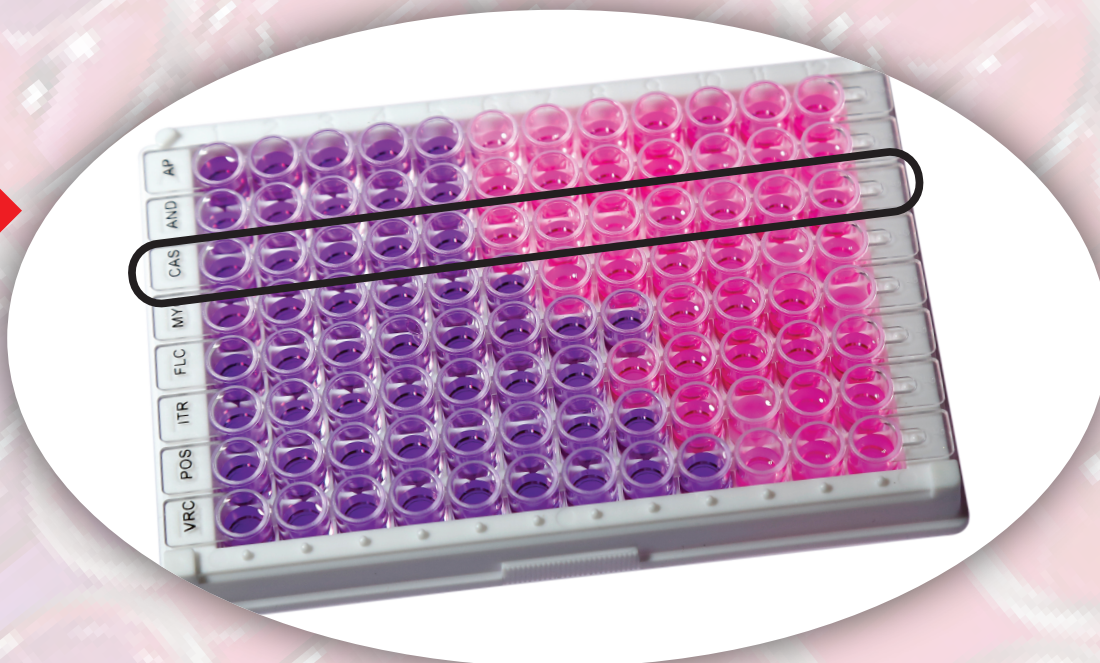
HiMedia Laboratories Pvt Ltd
www.himedialabs.com

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For Life is Precious

HiMIC™ Plate Kit – Formats



Single-Antimicrobial format provides 12 tests with 7 concentrations e.g. MPK020 (inset)



Multi-Antimicrobial formats involve 8 antimicrobials with 11 concentrations each e.g. MPK901 (inset)

Principle:

In recent years, there has been a growing interest in researching and developing new antimicrobial agents from various sources to combat microbial resistance. Several factors led to this increase, particularly the selection pressure exerted by overuse & misuse of antimicrobial agents which resulted in the emergence of resistant microorganisms. An important task of the clinical microbiology laboratory is the performance of antimicrobial susceptibility testing of the microbial isolates of interest. The goals of testing are to detect possible drug resistance in common pathogens and to find right drug of choice for particular infection. The most widely used testing methods include broth microdilution or rapid automated instrument methods that use commercially marketed materials and devices. Manual methods that provide flexibility and possible cost savings include the disk diffusion and gradient diffusion methods. Each method has its strengths and weaknesses, including organisms that may be accurately tested by the method. **A joint EUCAST and CLSI subcommittee recently issued recommendations confirming that broth microdilution (BMD) is so far the only valid method for MIC determination for certain antimicrobials, e.g. Colistin.**

HiMIC™ Plate Kit is a ready to use Minimum Inhibitory Concentration (MIC) determination kit by broth microdilution method consisting of 96 well microtiter plate with detachable well strips. This kit helps in reliable interpretation for Sensitive, Intermediate and Resistance detection with unaided visual inspection, in compliance with CLSI and EUCAST guidelines. Detachable well strip is coated with gradient of antibiotics and growth medium which are released upon the rehydration. HiMIC™ reading card is provided for easy interpretation of the MIC value.

Advantages:

- ★ A breakthrough in the detection of MIC with ease and accuracy.
- ★ Hassel free micro broth dilution.
- ★ 7 concentrations in a single strip covering breakpoint scale, 12 test per kit - **Single Antimicrobial format**.
- ★ 11 concentrations in a single strip covering breakpoint scale, 1 test per kit with 8 antimicrobials - **Multi - Antimicrobial format**
- ★ Easy breakpoint based visual evaluation.
- ★ Reliable interpretation for Sensitive, Intermediate and Resistance detection as per EUCAST and CLSI guidelines.

Storage & Shelf Life:

All packages must be stored as specified on the product label, until the given expiry date. Check whether the batch number and expiry date are marked on the storage container. Products can always be stored lower than the maximum temperature specified. HiMIC™ Plate Kit left over from an opened package must be kept dry. Moisture should be prevented from penetrating into or forming within the package or storage container. Product performance is best within stated expiry period if correctly stored and handled.

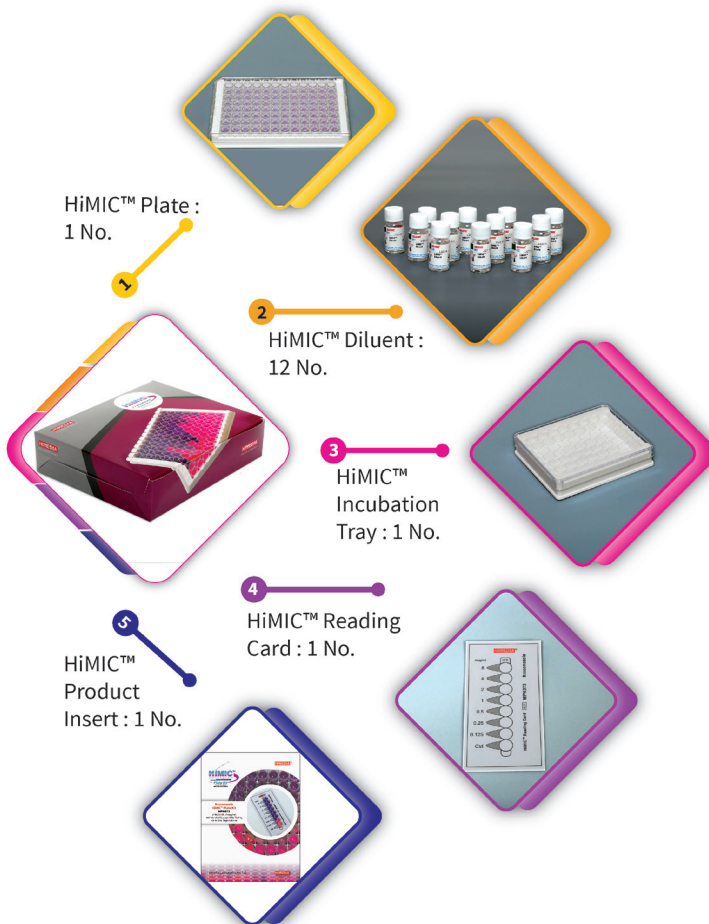
Handling:

Before using the HiMIC™ Plate from an unopened package, visually inspect to ensure the package is intact. Do not use, if the package has been damaged.

The product is highly sensitive, hence it is recommended that the product does not attain room temperature throughout its shelf life. It should be strictly stored at recommended storage conditions.

Kit Content : Single Antimicrobial format

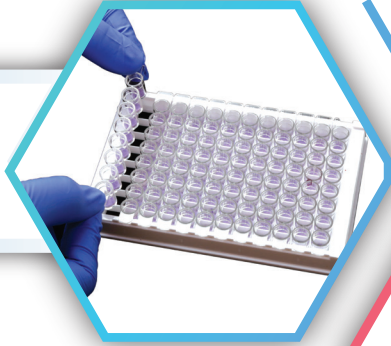
(For reference purpose only)



Systematic Flow Chart of HiMIC™ Plate Kit

STEP 1

Remove one detachable strip from 96 well plate



STEP 2

Add 200 μ L of 10^6 CFU/ml test inoculum in HiMIC™ diluent vial.



STEP 3

Mix well and vortex the vial



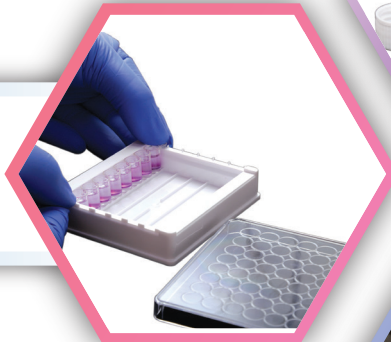
STEP 4

Inoculate 220 μ L of inoculum mixture in each well of detachable strip.



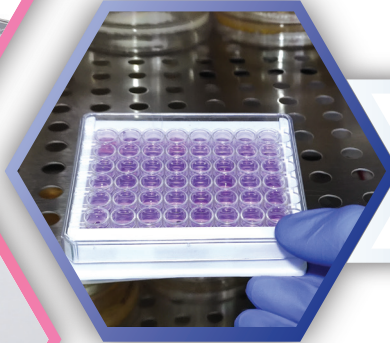
STEP 5

Place the inoculated strip in HiMIC™ Incubation tray.



STEP 6

Incubate at recommended temperature and time.



STEP 7

Read the value using HiMIC™ reading card



STEP 8

First purple well of the lowest concentration indicates Minimum Inhibitory Concentration (MIC) of the test inoculum



Product Range

Antibacterial Agents							
Product	Symbol	Range in µg/ml	Code	Product	Symbol	Range in µg/ml	Code
Amikacin	AMK	1 – 64	MPK001-1KT MPK001-3KT	Gentamicin	GEN	0.5 - 32	MPK025-1KT MPK025-3KT
Ampicillin	AMP	1 – 64	MPK068-1KT MPK068-3KT	Imipenem	IPM	0.125 - 8	MPK104-1KT MPK104-3KT
Ampicillin/ Sulbactam (2:1)	AMS	1/0.5 – 64/32	MPK109-1KT MPK109-3KT	Levonadifloxacin	LND	0.12 – 8	MPK709-1KT MPK709-3KT
Cefepime	CPM	0.5 - 32	MPK070-1KT MPK070-3KT	Meropenem	MRP	0.125 - 8	MPK080-1KT MPK080-8KT
Cefoxitin	CX	1 - 64	MPK101-1KT MPK101-3KT	Penicillin	PEN	0.06 - 4	MPK084-1KT MPK084-3KT
Ceftazidime	CAZ	0.5 - 32	MPK012-1KT MPK012-3KT	Piperacillin/ Tazobactam	PTZ	2/4 - 128/4	MPK042-1KT MPK042-3KT
Chloramphenicol	CHL	0.5 - 32	MPK016-1KT MPK016-3KT	Polymyxin B	PB	0.25 - 16	MPK043-1KT MPK043-3KT
Ciprofloxacin	CIP	0.06 - 4	MPK017-1KT MPK017-3KT	Teicoplanin	TEI	0.25 - 16	MPK055-1KT MPK055-3KT
Clindamycin	CLI	0.06 - 4	MPK019-1KT MPK019-3KT	Tigecycline	TGC	0.06 - 4	MPK089-1KT MPK089-3KT
Colistin	CL	0.25 - 16	MPK020-1KT MPK020-3KT	Vancomycin	VAN	0.25 - 16	MPK060-1KT MPK060-3KT
Ertapenem	ETP	0.06 - 4	MPK085-1KT MPK085-3KT				


Antifungal Agents							
Product	Symbol	Range in µg/ml	Code	Product	Symbol	Range in µg/ml	Code
Amphotericin B	AP	0.06 - 4	MPK071-1KT MPK071-3KT	Isavuconazole	ISV	0.12 - 8	MPK156-1KT MPK156-3KT
Anidulafungin	AND	0.125 – 8	MPK122-1KT MPK122-3KT	Itraconazole	ITR	0.12 - 8	MPK073-1KT MPK073-3KT
Caspofungin	CAS	0.125 – 8	MPK119-1KT MPK119-3KT	Micafungin	MYC	0.125 – 8	MPK121-1KT MPK121-3KT
Fluconazole	FLC	1 – 64	MPK072-1KT MPK072-3KT	Posaconazole	POS	0.03 - 2	MPK120-1KT MPK120-3KT
Flucytosine (5FC)	FLU	0.125 – 8	MPK118-1KT MPK118-3KT	Voriconazole	VRC	0.06 - 4	MPK086-1KT MPK086-3KT
Isavuconazole	ISV	0.125 – 8	MPK156-1KT MPK156-3KT				

Multi HiMIC™ Kit			
Product	Symbol	Range in µg/ml	Code
Octofungi 1			MPK901-5KT MPK901-10KT
Amphotericin	AP	0.008 - 8	
Anidulafungin	AND	0.008 - 8	
Caspofungin	CAS	0.008 - 8	
Micafungin	MYC	0.008 - 8	
Fluconazole	FLC	0.25 - 256	
Itraconazole	ITR	0.016 - 16	
Posaconazole	POS	0.008 - 8	
Voriconazole	VRC	0.008 - 8	

Customer specific ranges of antibiotic other than the ones available can be designed as per the requirements



IVD In vitro diagnostic
medical device

On receipt store at -20°C 

HIMEDIA®

MPK901 Octofungi 1 HiMIC™ Plate Kit

ANTIFUNGAL AGENT

Amphotericin B - AP

Anidulafungin - AND

Caspofungin - CAS

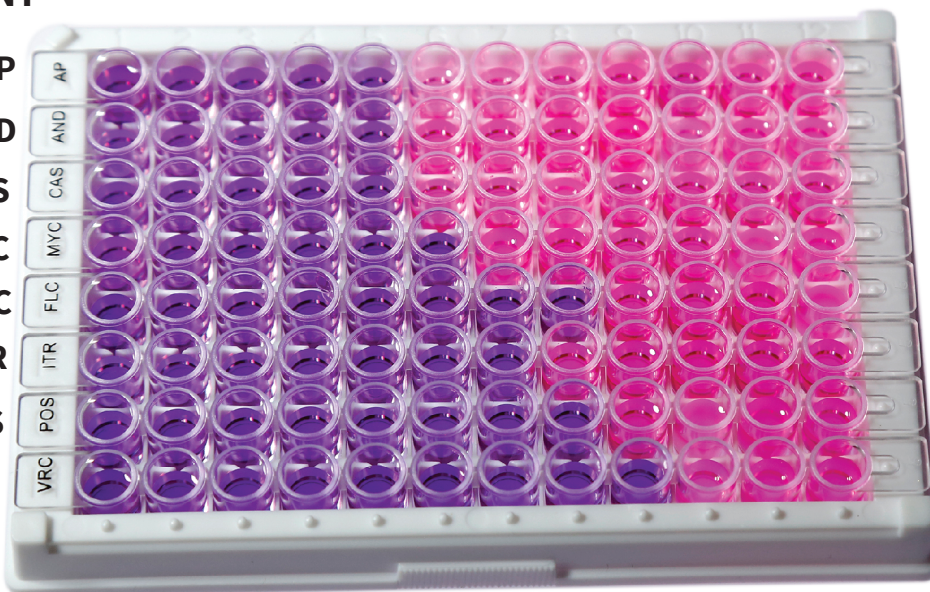
Micafungin - MYC

Fluconazole - FLC

Itraconazole - ITR

Posaconazole - POS

Voriconazole - VRC



Key features

- ◆ A single plate to determine antifungal profile
- ◆ Eight antifungal agents with 11 concentrations in a single plate
- ◆ User friendly substitute of traditional broth micro dilution method.
- ◆ As per CLSI & EUCAST guidelines
- ◆ Recommended for Yeast and Fungi

Best Practices for Guaranteed Success of Your Assay



All HiMIC™ products shipped under cold conditions



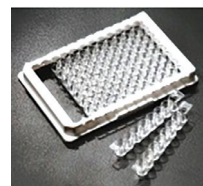
Report any shipment deviation or product damage immediately



Store the products Strictly at the recommended cold storage conditions immediately after receipt



Complete entire assay preparation before opening the HiMIC™ plate



Unused strips to be put back into cold storage immediately



Read immediately after Incubation completion

STERILE

Recommended to perform assay using sterile preparations under aseptic setup

HiMedia Laboratories Pvt. Ltd.

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