

MAST

Antibiotic Susceptibility Testing System

Your Veterinary In-house Analyzer

Report Ready
In 32 Hours



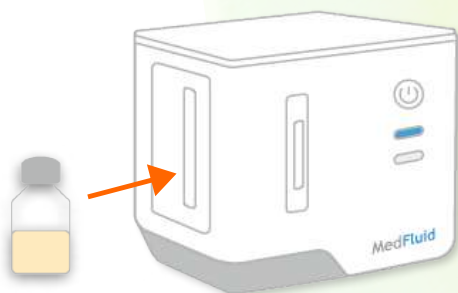
NAST instrumentation ***offers veterinarians an all-in-one solution for antibiotic susceptibility testing (AST)*** by integrated microfluidic technology with an automated detection instrument and specialized reagents.



- Generates reports to guide antibiotic therapy and reduce resistance risks.
- Provides automated Antibiotic Susceptibility Testing (AST) for animal samples.
- Evaluate the Minimum Inhibitory Concentration (MIC) and report the antimicrobial susceptibility categories with 20 hours in average.
- Uses microfluidic technology for fast and accurate susceptibility assessment.



Step 1: Pre-culture



Step 2: AST



Step 3: Automatically generate AST report

Antibiotic	MIC	SIR
Control	-	+
Ampicillin	<0.25	S
Cefixime	=4	I
Cephalexin	>64	R
Azithromycin	>8	R
Metronidazole	>64	R
Cefadroxil	>16	R
Amoxicillin/ Clavulanic acid	>16/ 4	R
Doxycycline	=16	I
Enrofloxacin	=16	I
Minocycline	<1	S
Meropenem	=12	I
Gentamicin	>32	R
Erythromycin	<0.25	S
Clindamycin	<0.25	S
Trimethoprim/ Sulfamethoxazole	<2/10	S

AST results for 15 antibiotics can be obtained in a single reaction. Currently, two antibiotic combination panels (MB04, MB07) are available for selection.

Antibiotics in the susceptibility cartridge	MB04	MB07
Ampicillin	V	V
Amoxicillin/ Clavulanic acid	V	V
Azithromycin	V	V
Cefadroxil	V	V
Ceftazidime		V
Cefixime	V	V
Cephalexin	V	V
Ciprofloxacin		V
Clindamycin	V	V
Doxycycline	V	V
Enrofloxacin	V	V
Erythromycin	V	
Gentamicin	V	V
Meropenem	V	V
Metronidazole	V	V
Minocycline	V	
Trimethoprim / Sulfamethoxazole	V	
Vancomycin		V

Product Specifications

Product name	NAST Instrumentation
Product code	MA01
Heating temperature	30-37 °C ± 1°C [86-99°F] indoors
Display	Windows based user interface
Interface	Wi-Fi, USB
Output options	e-PDF files
Operating temperature	Room temperature (15-25°C)
Power supply	AC 110-240 V, 50/60 Hz
Dimensions	175 mm [H] x 140 mm[L] x 200 mm[W]
Weight	Approx. 1.5 kg
Storage and Shipping conditions	Room temperature (15-25°C); Humidity (5-95%, non-condensing)

Product name	NAST Culture Media Aerobic AST Kit		NAST Culture Media Aerobic AST Kit	
Product code	MB04		MB07	
Storage and Shipping conditions	Keep in 2-8°C refrigeration		Keep in 2-8°C refrigeration	
Shelf life	1 year	AB Susceptibility Cartridge, Culture Medium 1, Culture Medium 2, Dilution Buffer	1 year	AB Susceptibility Cartridge, Culture Medium 1, Culture Medium 2, Dilution Buffer
	4 months	Indicator	4 months	Indicator
Sample type	Fluid, Secretion, Swab sample		Fluid, Secretion, Swab sample	
Pathogen	Aerobe and facultative anaerobe		Aerobe and facultative anaerobe	

Product name	Indicator	Culture Medium 1
Product code	MC01	MC02
Storage and Shipping conditions	Keep in 2-8°C refrigeration	Room temperature (15-25°C)
Shelf life	4 months	1 year



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