

# 미생물 동정과 항생제 감수성, MIC 결과 판독 을 위한 Solutions

## OptiRead

## 형광측정기



**모 델** OptiRead (감수성, MIC , 미생물 동정용 판독기)

**개 요** 형광기질이 포함된 Sensititre panel용 형광 측정 장비.  
(MIC 검사, 미생물동정)

- 특 징**
- 1) 판독결과를 자동으로 확인 및 저장 가능.
  - 2) 손쉽게 감수성 및 MIC 결과 판독 및 미생물 동정.
  - 3) 육안 판독에 의한 결과 오류 방지 가능.
  - 4) 다양한 균 종에 대한 동정 과 감수성 검사를 동시에 실행.

감수성 검사 결과 : SWIN Software

감수성 검사 결과 : Worksheet

Plate	Drug Description /	MIC	Original	Expert	Final
MA	Amikacin	<=1	S	S	
MH	Amikacin	>32	R	R	R
MH	Amoxicillin/ Clavulanic Acid	>16	R	R	R
MA	Ampicillin	<=1	S	S	
MH	Ampicillin	>16	R	R	R
MH	Ampicillin/ Sulbactam	<=8	S	S	S
MA	Carbenicillin	<=2	NI	NI	NI
MH	Cefepime	>16	R	R	R
MA	Cefeprozane	<=8	S	S	S
MA	Cefotaxime	<=1	S	S	
MH	Cefotaxime	>32	R	R	R
MA	Cefoxitin	<=1	S	S	I
MH	Ceftazidime	>16	R	R	R
MA	Ceftazidime (sodium)	<=1	S	S	

Isolate	A	B	Species	Human
Organism	E.coli	Sau1000		
Antibiogram				
Amikacin	4 S			
Amoxicillin/ Clavulanic Acid	<=1 S	<=4 S		
Ampicillin	4 R	<=8 R		
Carbenicillin	4 S			
Cefeprozane	> 64 R	16 I		
Cefotaxime	4 S			
Cefazolin	16 I			
Cefuroxime (sodium)	4 S			
Ciprofloxacin	8 S	<=8 S		
Chloramphenicol	<=4 S			
Ciprofloxacin	2 I	2 I		
Clindamycin	8 S	2 I		
Erythromycin	<=0.5 S			
Gentamicin	1 S	8 I		
Imipenem	<=4 S			
Nicotinamide	<=32 R			
Netilmicin	8 S			
Ofloxacin + 2% NaCl	<=2 S			
Penicillin		0.12 R		
Piperacillin	8 S			
Rifampin	<=2 S			
Tetracycline	<=2 S	8 I		
Tobramycin	1 S			
Trimethoprim/ Sulphamethoxazole	<=2 S			
Vancomycin	<=4 S			

미생물동정 검사 결과 : SWIN Software

미생물동정 검사 결과 : Worksheet

**Biochemical Reactions**

FR1 Urea	Ornithine	Sorbitol
Xylose FR12	Sucrose	FR9
FR3 Trehalose	FR8	Mannitol
Maltose FR4	Inositol	FR10
FR5 Fructose	Aesculin	Arabitol
Arabinose Lysine	TDA	Raffinose
FR7 Arginine	FR6	Cellulose
Malonate Pyruvate	Citrate	Agmatine

**Additional Tests**

- Pigment
- Oxidase
- Indole
- Starch

**Key**

- Strong Test Against
- Weak Test Against
- Strong Test For
- Weak Test For

**Expert System Messages**

Biocode: 1DD94C44 Category: Acceptable

**Organism**

1. Escherichia coli 82.55%
2. Escherichia coli atypical 13.00%
3. Citrobacter freundii 0.75%

(Click to hide tests FOR and AGAINST)

Specimen	DATE	Time	Species	Human
COMBO	19-Nov-2003	12:10 PM		
Source	DR. HOLLOW			
Requesting Physician	DR. HOLLOW			
SPEC1	SPEC2	SPEC3	SPEC4	SPEC5
SPEC2	SPEC3	SPEC4	SPEC5	
SPEC3	SPEC4	SPEC5		
Isolate	IS1	IS2	IS3	IS4
Organism	1 Paratuberculosis apicomplexans	Duplicate	1 Yes	1 No
Non-cultivable Infection	1 Yes	ISO1	1 ISO2	1 ISO3
ISO1	1 ISO2	1 ISO3	1 ISO4	1 ISO5
ISO2	1 ISO3	1 ISO4	1 ISO5	1 ISO6
Off-line Tests	1 Inhibitor	+		
Date/Time	19/11/2003 12:10:04	Incubation	18 Hours	CIN10 G-wt/Auto 18hr ID
FR1	- Urea	- Ornithine	- Sorbitol	
Xylose	+ FR12	- Sucrose	+ FR9	
FR3	- Trehalose	+ FR8	- Mannitol	
Maltose	+ FR4	- Inositol	- FR10	
FR5	- Fructose	+ Aesculin	- Arabitol	
Arabinose	+ Lysine	- TDA	- Raffinose	
FR7	- Arginine	+ FR6	- Cellulose	
Malonate	- Pyruvate	- Citrate	- Agmatine	
Biocode	1A0A791D	Probability Tests Against	Matrix Value	
Category	Good	100.00 %	FR10	89
Organism	1 Paratuberculosis apicomplexans	FR12	93	
		FR7	93	