

# DR. MiniOven™

Cat#SC3002

*Best Hybridization system  
for your need*



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*DR. Mini Oven*

DDE-MO-0405-A

*small size, large capacity*

## DR. MiniOven™



DR. MiniOven™ is an economical, high performance hybridization oven with accurate temperature control and vibration function.

### :: Accurate Temperature Control

Precise temperature control ensures the consistent performance across experiments allowing you to optimize your hybridization. The temperature can be setup and visually monitored during operation with the digital temperature control display.

### :: Vibration Platform

The vibration platform provides linear rocking movement to ensure continuous mixing during hybridization for optimal result.

### :: Expanded Capacity

The oven holds up to 10 slides of DR. Poly Chip (3 chips per slide) or 2 plates of 96-wells microplate, allowing you to process many reactions at one time.

### :: Safety

The oven is equipped with automatic overheating power off system.

#### ▶ Oven heating protection

When the chamber temperature exceeds 85°C, the oven will power off immediately.

#### ▶ User interactive protection

When the tray door is opened, the heating and vibration will be stopped.

### :: Fast Heat Up

User no longer needs to wait thirty minutes to reach desired temperature. The oven heats from room temperature to 50°C in only 8 minutes.



DR. Chip Biotechnology Inc.  
TEL: 886-37-585585 FAX: 886-37-585586  
sales@mail.bio-drchip.com.tw  
http://www.bio-drchip.com.tw

### Features

Microprocessor control panel

Maximum temperature up to 80°C

Easy operation

Accommodate two microplates or 10 slides or chip stripes

Stainless steel chamber

### Specifications

Model	MO2004
Net Weight	7.8kg
Dimensions (W x H x D)	26.5 x 20.0 x 33.5 (cm)
Operating Temperature Range	Room temp to 80°C
Temperature Accuracy	± 0.1°C
Temperature Display Resolution	0.1°C
Vibration	50/60Hz
Power Input	100-120/200-240V AC

※ Japan utility patent Registration No. 3100751

※ Patent pending: CN, TW

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# DR. AiM™ Reader

Cat#8C3003

*Your Gateway to High Throughput  
Genetic Identification*



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**DR AiM™**  
Reader

DDE-AR-0405-A



# Arrays-in-Microplate

## DR. AiM™ Reader



DR. AiM™ Reader is the fastest and the most user-friendly microarray scanner available today. This fully-integrated scanner and software system are one of the proprietary products of DR. Chip Biotech's extensive experience in the design and manufacture of precision scientific instruments.

### :: DR. AiMSoft - An Integrated Software Platform

Equipped with image and data analysis software, feature information can be easily collected and perfectly linked to statistical analysis and data interpretation in MS Excel format.

#### ► User Friendly Interface

DR. AiMSoft is so simple to use that you can begin routine scanning and analysis within couple of hours.

#### ► Background Noise Reduction

DR. AiMSoft is capable of reducing the background noise to the maximum by data analysis and treatment.

#### ► Automatic Alignment Adjustment

User may choose a desired tolerance range for spot alignment.

#### ► Standard Template Library

DR. AiMSoft provides the template library for standard comparison. Users can also set up the customized template for their own need.

### :: Integrated Hardware Platform

The reader utilizes a designed lighting system and CCD camera detection technology to capture images from microplates.

#### ► High Resolution and Fast Scanning

This reader is available in both 600 and 300 dpi resolution. The scanning process requires only 3 minutes at 600 dpi or 2 minutes at 300 dpi.

#### ► Compact in Size

Small instrument size in both dimension and weight conserves bench space in any laboratory.

### 96-Wells DNA Arrays



Specific probes are pre-spotted at the bottom of each well to capture target genes. Standard 96-well microplate is one of the best choice of microarray substrate.

### DR. AiMSoft



#### ► System configuration

PC Intel 1.7GHz 512MB DDR RAM 60GHD  
14" Monitor  
USB interface  
Window XP

#### ► Background Noise Reduction

#### ► Auto Installation & Un-installation

#### ► Automatic Alignment Adjustment

#### ► Password Protection

#### ► Standard Data Storage & Output

#### ► Default Setup

#### ► Standard Template Library

### Specifications

Model	MRC002
Net Weight	10.5kg
Dimensions (W x H x D)	38 x 16.3 x 30.5 (cm)
Power Input	110~230V AC
Scan Mode	Color mode: 24 bits/pixel Grayscale mode: 8 bits/pixel
Scan Speed	1~3mins
Scan Resolution	300 or 600 dpi
Max Scanning Size	120 x 80 (mm)

※ Patent pending: US, AU, EU, CN, TW



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# DR. Fast Spot™

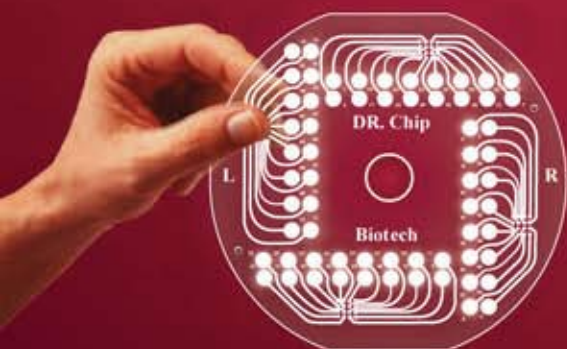
*Fast and Simple Arrayer  
for Creating High Quality Biochips*



□ probe tray

□ biochip

□ pinholder



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**FASTSPOTFAST**

DDE-FS-0506-A



*fast spot, spot fast!*

## DR. Fast Spot™



**DR. Fast Spot** is an economical and easy-to-use spotting machine. **DR. Fast Spot** does not require external power source and complicated, expensive electronic equipments. All you have to do is to prepare your probes, you can make high-quality biochips with DR. DIY kit. You don't need to purchase high-priced automatic arrayer, and you don't have to be bothered by other sophisticated and difficult manual arrayers.

It is convenient and easy to make biochips by **DR. Fast Spot**, and you can make multiple chips in a very short time.

### Specifications

Weight	13.8kg
Dimensions (D x W x H)	416 x 344 x 158 (mm)
Spot diameter	500~600mm
Spot distance	1000mm
Maximum spot density	64 spots (8x8 matrix)
Spotting rate	20 minutes/24 reactions (8x8 format)

### :: Convenient



- ▶ Specially designed probe tray is compatible with 8-channel microtiter pipette. It is convenient to load probes.

**DR. Fast Spot** is so easy to use. You can start spotting procedures without complicated settings. It is more convenient than automatic arrayers.

### :: Simple



- ▶ It is easy to assemble and disassemble the pin-holder and spotting pins. It makes the disinfecting more convenient.

Different probes are dipped by individual spotting pins. You can spot biochips continually without washing spotting pins.

### :: Economical



- ▶ **DR. Fast Spot** provides an economical and practical spotting solution. You can make high-quality biochips without complicated and expensive electronic equipments.

Different from other manual arrayers, you can start spotting with a small amount of probe solution, thus it could lower your cost.

### :: High-reproducibility



- ▶ You can produce 8x8 matrix with DR. DIY Kit. The spots on the chip are in accurate position; the shape of spots is round and uniform; the chips have excellent reproducibility.

### :: Fast spotting



- ▶ Specially designed chip holder enables simultaneous spotting of 4 biochips.
- ▶ From probe loading to chip spotting, 8 chips of 8x8 spot matrix could be completed in 20 minutes (24 reactions total). Making biochips by using **DR. Fast Spot** is faster and more convenient than using automatic arrayer.



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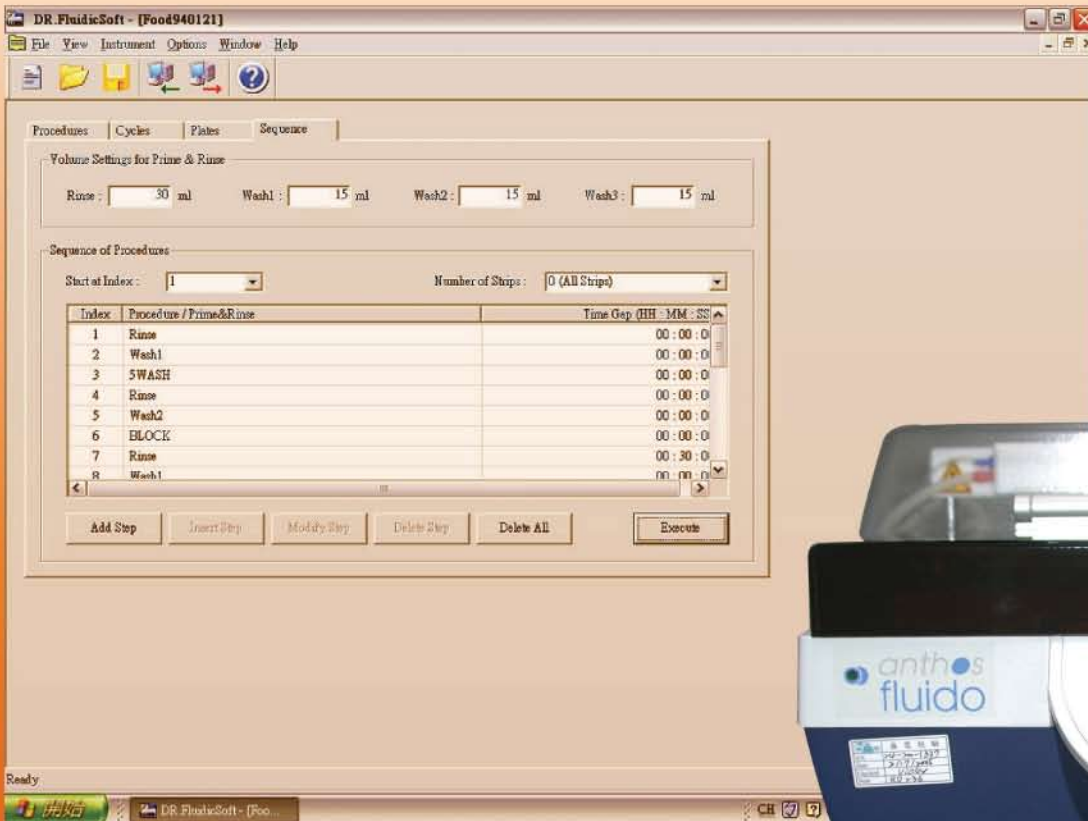
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# DR. Fluidic Station™

*Automatically do Wash, Blocking, Developing Steps*



## Specifications

Weight	6.2kg
Dimensions (D x W x H)	42 x 28 x 22 (cm)
Power Requirements	90~130, 180~250V AC

## Feature

- ▶ Fully automated, programmable washer.
- ▶ Vacuum and pressure free system for quiet operation.
- ▶ Light shield for colorimetric development.
- ▶ Windows-based DR. FluidicSoft with user friendly interface.
- ▶ With pre-defined sequence, you can complete washing, blocking, detection by pushing one button.



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DDE-WF-0406-A



# DR. HBV™ Kit



## Features

### Complete panel:

Detect human Hepatitis B virus genotype A, B, C, E, F and two drug-resistant mutants YIDD and YVDD for lamivudine treatment.

### Fast:

Result can be obtained in 6 hours.

### Accurate:

Dual target-specific design including sequence-specific primer and type-specific probes.

## Applications

- Genotyping of HBV type A-F
- Screening of drug-resistant mutants before and during lamivudine treatment.
- Screening of viral residue after treatment

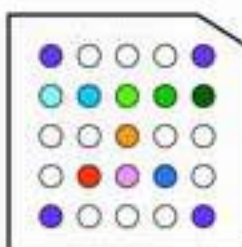
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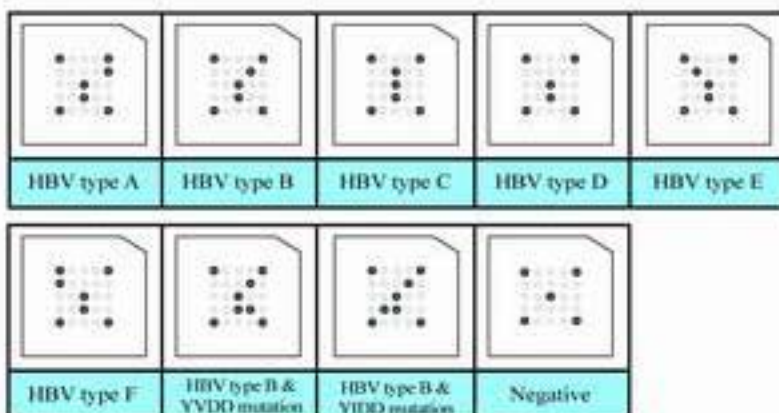
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## Probe Allocation



- Hyb. Positive Control
- PCR Positive Control
- Blank
- HBV type A
- HBV type B
- HBV type C
- HBV type E
- HBV type F
- YVDD mutation
- HBV common
- YIDD mutation

## Patterns



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# DR. HPV™ Kit



## Features

- The most advanced **DNA EXTRACTION** technology, the sensitivity is much better than traditional method.
- High-density Polymer base.
- Detect both high-risk types and low-risk types of Human Papillomavirus in 6 hours.
- Include all reagents required, such as for sample preparation, nucleic acid amplification, hybridization and Dr. HPV Chips.

## Applications

- Detail clarify the quantity and types of HPV when testing with Pap test.
- Keep tracking the growing process of cervical cancer definably.
- Detect different many types of HPV accurately!
- Including many types:  
**HPV high-risk group: 16, 18, 31, 33, 45, 58**  
**HPV low-risk group: 6, 11, 34, & 70**

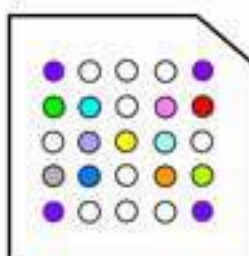
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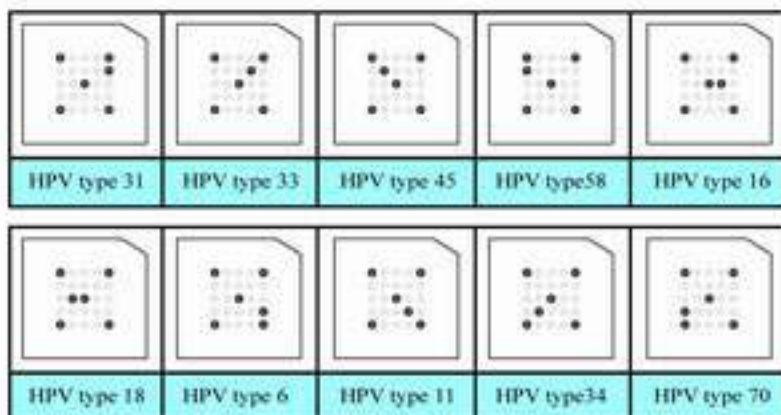
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## Probe Allocation



- Hyb. Positive Control
- PCR Positive Control
- Blank
- HPV type 31
- HPV type 33
- HPV type 45
- HPV type 58
- HPV type 16
- HPV type 18
- HPV type 6
- HPV type 11
- HPV type 34
- HPV type 70

## Patterns



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# DR. Milk III Kit

Detect multiple bacteria  
in **6** hours

*Mycoplasma bovis*  
*Staphylococcus aureus*  
*Streptococcus agalactiae*  
*Strep. bovis*  
*Strep. spp.*  
*E. coli*  
*Strep. uberis*  
*Strep. dysgalactiae*



CAT# KD1017-KD1018

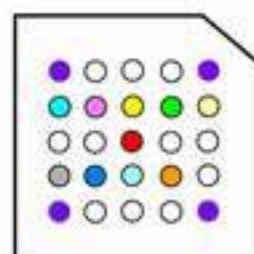
## Advantages

- Specific, sensitive, and fast
- Increase milk production and quality
- Reduce antibiotics usage
- Detect mastitis in the early stage
- Reduce cost for drug treatment and cattle removal expenses
- Monitor dairy farm environment control program

## Comparison between DR. Milk™ III Kit and Traditional Method

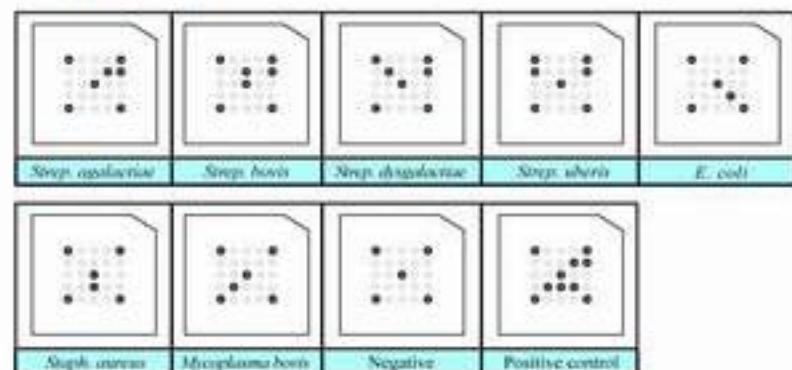
DR. Milk™ III Kit	Culture
High sensitivity	Normal sensitivity
High accuracy	Normal accuracy
Only 6 hours needed	24-48 hours needed
Detect 7 bacteria in one test	Detect 1 bacteria per test

## Probe Allocation



- Hybridization Positive Control
- *Streptococcus spp.*
- *Strep. agalactiae*
- *Strep. bovis*
- *Strep. dysgalactiae*
- *Strep. uberis*
- *E. coli*
- *Staphylococcus aureus*
- *Mycoplasma bovis*
- PCR Positive Control
- Negative control

## Patterns



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# DR. MTBC™ Kit



CAT# RD1025 RD1026

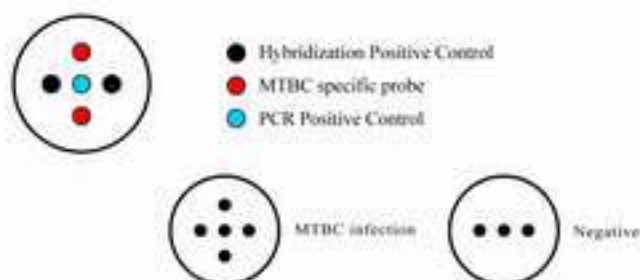
## Features

- **Fast** (Diagnose MTBC infection and drug-resistant mutants in 6 hours)
- **High sensitivity** (Detect  $\leq 100$  bacteria in a specimen)
- **High specificity** (sequence-specific probes are used to capture type-specific strains and drug resistant mutants)
- **High throughput** (96-well microplate format, with semi-automatic devices, are used for large sample screening)
- **Affordable price**

## Probe Allocation & Patterns

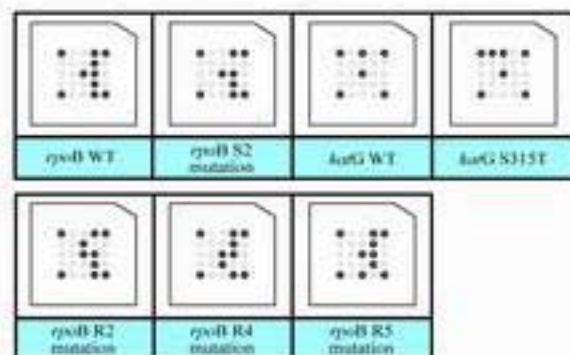
### DR. MTBC™ Screen Kit

CAT# RD1025



### DR. MTBC™ MDR Kit

CAT# RD1026



### DR. MTBC™ Screen Kit

### DR. MTBC™ MDR Kit

Adopt 96-well microplate (8-well strips) for high throughput screening of Mycobacterium tuberculosis complex (MTBC): *M. tuberculosis*, *M. bovis*, *M. bovis BCG*, *M. africanum*, *M. microti*

Detect **MTBC** and **rpoB** and **katG** drug-resistant mutants.

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# DR. Multi-Bact™ Kit



## Features

The DR. Multi-Bact™ Kit detection system provides a new, easy, rapid, specific and sensitive way to identify 9 bacteria in a single assay:

- *Staphylococcus aureus*
- *Salmonella* spp.
- *Shigella* spp.
- *Escherichia coli*
- *Listeria monocytogenes*
- *Yersinia enterocolitica*
- *Vibrio* spp.
- *Clostridium perfringens*
- *Bacillus cereus*

✧ Shorten the detection time and operation process

DR. Multi-Bact™ Kit detection system		<b>&lt; 20 hours</b>
Overnight enrichment	→ DNA extraction → PCR → Hybridization	→ Results
Traditional methods		<b>24-48 hours</b>
Enrichment in medium	→ Isolation on selective agar	→ Biochemical identification → Serological identification
		→ Results

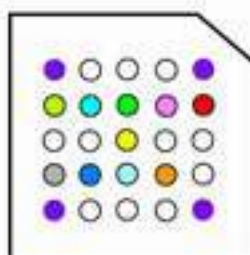
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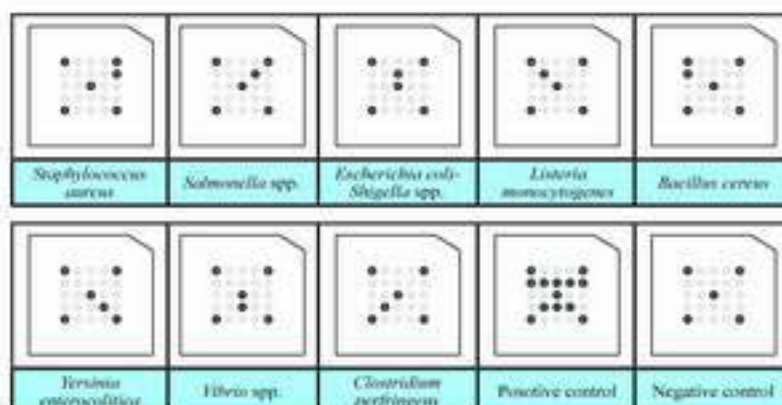
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## Probe Allocation



- Hybridization Positive Control
- *Staphylococcus aureus*
- *Salmonella* spp.
- *Escherichia coli-Shigella* spp.
- *Listeria monocytogenes*
- *Bacillus cereus*
- *Yersinia enterocolitica*
- *Vibrio* spp.
- *Clostridium perfringens*
- PCR Positive Control
- Negative control

## Patterns



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# DR. RV™ IVD Kit



CAT# RD1013/ RD1014

## Features

### Fast:

Detect SARS (coronavirus) infection in **4-6 hours**

### Sensitive:

Sensitivity is 10-100 times higher than immunoassay and/or viral culture method.

### Multiple targets:

Detect 8 major respiratory pathogens in a single assay, including coronavirus, influenza A, influenza B, parainfluenza 1, parainfluenza 2, parainfluenza 3, RSV, and adenovirus.

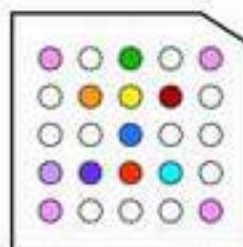
### Early Detection:

Detect virulent factors in 1-2 days post infection. (7-14 days compare to immunoassay)

➤ **Method used:** DR. RV™ IVD Kit employs four molecular biology methods, including viral RNA extraction, reverse transcription, polymerase chain reaction, and hybridization.

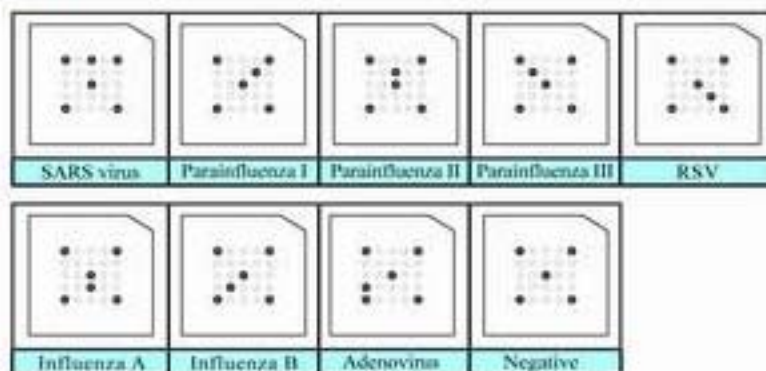
➤ **Specimens:** naso-pharyngeal wash, throat swab.

## Probe Allocation



- Hybridization Positive Control
- PCR Positive Control
- Hybridization Negative Control
- Parainfluenza I
- Parainfluenza II
- Parainfluenza III
- RSV
- Influenza A
- Influenza B
- Adenovirus
- SARS virus

## Patterns



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# DR. EV™ IVD Kit



## Features

### Fast:

Detect enterovirus infection in **4-6 hours**

### Sensitivity:

1000 times more sensitive than traditional viral culture method.

### Specificity:

No cross-reaction between adenovirus, herpes simplex virus type I and type II, human cytomegalovirus

### Multiple Targets:

Detect genus enterovirus and two serotypes: **enterovirus 71** and **coxsackie A16**.

- **Method used:** DR. EV™ IVD Kit adopts four molecular biology techniques, including viral RNA extraction, reverse transcription, polymerase chain reaction, and hybridization.
- **Specimen:** throat swab, rectal swab, feces, naso-pharyngeal aspirate, serum, and cerebral spinal fluid.

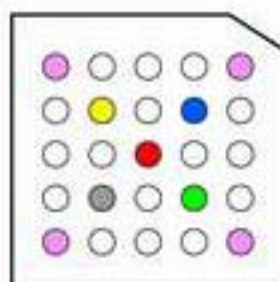
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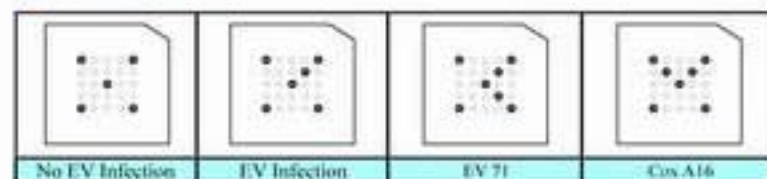
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## Probe Allocation



- Hybridization Positive Control
- Hybridization Negative Control
- PCR Positive Control
- Pan-enterovirus probe
- Enterovirus 71 probe
- Coxsackie A16 probe
- Chip Blank

## Patterns



- October, 2001 Awarded with the Small and Medium Enterprise Innovation Research Award.
- January, 2003 Awarded with TAIWAN SYMBOL OF EXCELLENCE 2002 WINNER.

