



intelligent

immediate

impact



icubate

Multiplex Amplification &  
Detection, Automated,



in a Closed,  
Disposable Cassette.



**Multiplex** - See more, know more, do less.

- Proprietary ARM-PCR technology (Amplicon Rescued Multiplex PCR) allows multiple targets to be amplified in one reaction.
- Proven array detection technology analyzes multiple targets at once.

**Automated** - Right answer, right now.

- Independent PCR heaters save time and energy.
- Efficient post hybridization washes decrease background.
- Plug and play operation, no need for extensive training.

**Closed** - Contamination contained, worries disposed.

- Preloaded reagent wells reduce the chance of contamination.
- Internal waste chamber eliminates the source of contamination.
- Decrease the number of rooms required for molecular analysis.



**iCubate Cassettes** are custom made to automate

molecular protocols such as PCR, ligation, hybridization and detection.

Possible applications include pathogen identification from various sample sources; sRNA, miRNA and gene expression profiling; and immunorepitoire diversity evaluation. The cassettes listed on the following pages are just a sample of what we have to offer.

For more information please visit our website at [www.icubate.com](http://www.icubate.com).

*All products are for research use only.*

**Respiratory-V**

- Influenza virus H1N109
- Influenza virus A
- Influenza virus B
- Respiratory Syncytial virus A
- Respiratory Syncytial virus B
- Parainfluenza virus 1
- Parainfluenza virus 2
- Parainfluenza virus 3
- Parainfluenza virus 4
- Adenovirus types 3 & 7
- Adenovirus type 4
- Coxsackievirus A & B
- Echovirus
- Rhinovirus
- Human Metapneumovirus A & B
- Human Coronavirus (OC43)
- Human Coronavirus (229E)
- Human Coronavirus (NL63)
- Human Coronavirus (HKU1)
- Human Bocavirus

**Respiratory-B**

- Haemophilus influenzae* (nontypeable)
- Haemophilus influenzae* (types a,b,c,d)
- Haemophilus influenzae* (types e&f)
- Chlamydia pneumonia*
- Legionella pneumopila*
- Neisseria meningitidis*
- Streptococcus pneumoniae*
- Mycoplasma pneumoniae*
- Staphylococcus aureus*

**FluTyping**

- Influenza A
- Influenza B
- H1(seasonal)
- H109 (swine)
- H3 (seasonal)
- H5 (avian flu)
- N1 (shared)
- N2 (seasonal)

**HAI**

- Acinetobacter baumannii*
- Staphylococcus aureus*
- Pseudomonas aeruginosa*
- Klebsiella pneumoniae*
- Enterococcus faecalis*
- Enterococcus faecium*
- Escherichia coli*
- Enterobacter cloacae*
- Proteus mirabilis*
- Candida albicans*
- Candida krusei*
- Candida glabrata*
- Candida parapsilosis*
- Candida tropicalis*
- Methicillin resistance

**Myco**

- Mycobacterium sp*
- M. avium complex*
- M. tuberculosis complex*
- M. terrae*
- M. chelonae & M. abscessus*
- M. Kansasii & M simiae*
- M. flavescens*
- M. fortuitum*
- M. gordonae*
- M. xenopi*
- M. genavense*
- Isoniazid resistance
- Rifampin resistance
- Streptomycin resistance
- Ethambutol resistance

**STD**

- Chlamydia trachomatis*
- Haemophilus ducreyi*
- Mycoplasma hominis*
- Herpes Simplex Virus 1
- Herpes Simplex Virus 2
- Mycoplasma genitalium*
- Neisseria gonorrhoeae*
- Treponema pallidum*
- Trichomonas vaginalis*
- Ureaplasma realyticum*

**Diarrheal**

- E. coli* (O157)
- E. coli* (ETEC)
- E. coli* (EPEC)
- E. coli* (EIEC)
- E. coli* (EaggEC)
- Shigella spp*
- Yersinia enterocolitica*
- Salmonella*
- Campylobacter coli*
- Campylobacter jejuni*
- Vibrio cholerae*
- Vibrio parahaemolyticus*
- Staph. aureus*

**Staph**

- Coagulase Negative *Staphylococcus*
- S. epidermidis*
- S. haemolyticus*
- S. hominis*
- S. lugdunensis*
- S. simulans*
- Staph. aureus* (MSSA)
- Staph. aureus* (MRSA)
- Staph. aureus* (ccrBI-III)
- Staph. aureus* (ccrBIV, pvl)

**Staph-R**

- beta-lactams
- Vancomycin
- Aminoglycoside
- Macrolides
- Clindamycin
- Streptogramins A
- Streptogramins B
- Tetracycline resistance
- Fluoroquinolones
- Linezolid



## **ic System**

An iCubate system includes one Reader, one Processor, and a computer with preinstalled software. The internal and external barcode scanners located throughout the system will ensure error free processing and tracking of your samples.

## **ic Report**

iCubate's Report software performs automated data analysis and generates individual reports for each iCubate cassette. It also monitors and tracks cassette progress as well as system performance.

## **ic Cassette**

Each single use cassette comes preloaded with all the reagents necessary to perform a multiplex amplification and detection for your sample. The closed design of the cassette guarantees that the high concentration amplicons contained inside have no chance of contaminating your lab.

## **ic Processor**

iCubate's Processor allows for the automated processing of iCubate cassettes. Computer controlled robotics allow for automated PCR, hybridization and washing procedures to be performed. Each Processor can run from one to four cassettes in a random access fashion, if more throughput is needed, up to twelve units can be linked together to run up to 48 samples simultaneously.

## **ic Reader**

iCubate's Reader allows for automated data collection from iCubate cassettes. A high speed rotating platter, laser, and photomultiplier tube allow the acquisition of data from each cassette in just seconds.



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