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Scigiene NucleoAMP Electronic Device Molecular Detection System

Specifications:

Sample Number	8 wells (1×8 strip)

Sample Volume	15ul-150ul
Touchscreen	7 inch
Temperature control range	ambient – 99℃
Temperature accuracy	±0.1℃
Temperature uniformity	±0.15℃
Heating speed	2℃/S
Cooling speed	2℃/S
Channels	One
Optics source	F1: 470nm
Detection	F1: 525nm
Power Adapter	DC15V 8A
Dimensions (WxDxH) mm	145x305x100mm
Weight	1.9kg

Description

- Scigiene’s nucleoAMP with CAT®(Circular Amplification Technology) is an easy-to-use, specific and sensitive molecular detection system based on isothermal amplification. In contrast to other molecular technologies, CAT® uses unique amplification reaction technology for in vitro DNA and RNA amplification at a constant temperature (isothermal amplification).
- The unique molecular detection method and ease of use of the system allow you to finalise the test with minimal matrix effect from any environmental sample, food or fluid. The MDA Detection kits are optimised to work directly from the specimen for viruses, fungi, moulds and parasites. Pre-enrichment is required to screen food samples for bacteria. Surface and environmental swab samples (for bacteria and viruses) can be detected without pre-enrichment. CAT® is much faster than PCR, Real

Time PCR or other molecular detection systems with its few-step protocol and without the need for expensive device investments. It provides a genetic determination of low-level targets in a short period of 5-10 minutes without pre-enrichment if necessary. Analysis with the CAT® system results in excellent accuracy, specificity and precision in both food matrices and organism and environmental samples with minimal matrix effects compared to conventional methods.

CAT® Molecular Detection Assay is designed to be used in food, environment, poultry and public care industries.

Features:

- Allows you to quickly and accurately detect the target organism by fluorescent measurement in any specimen.
- Enables viewing real-time reaction on its screen, or an external computer screen or a mobile phone with curves.
- Positive and negative results are displayed easily with text and colours at the end of the analysis. The device is light, rechargeable and portable with a small footprint to save bench space.
- 7-inch Touchscreen.
- Supports eight standard 0.2ml tubes.

Robustness

The reaction mixture has a high tolerance to inhibitors, so that you get the most accurate result.

Performance

The CAT Molecular Detection Assay is resistant to temperature differences with its special composition and has high repeatability. The system has been validated by long and comprehensive studies on high precision and accuracy. Its sensitivity is 102 mL for bacteria.

Speed

Thanks to the improved unique method, positive samples can only be detected in 5-15 minutes, and negative samples can be detected within 30 minutes (reaction time varies

according to the kit type). All processes, including nucleic acid extraction and reaction, result in only total 45 minutes.

User Friendly

It is very simple to use, with just a few easy-to-use steps.

Cost Effective

Expensive equipment, equipped personnel and high investment costs are not required. You can achieve great results with low budgets.

Additional Information

Kits	Reaction Conditions	Reaction Time
Poultry Detection Kits		
MDA Salmonella spp. Detection Kit	65°C	20 min
MDA Salmonella Enteritidis Detection Kit	65°C	20 min
MDA Salmonella Typhimurium Detection Kit	65°C	20 min
MDA Salmonella Infantis Detection Kit	65°C	20 min
MDA Salmonella Hadar Detection Kit	65°C	20 min
MDA Salmonella Virchow Detection Kit	65°C	20 min
MDA Salmonella Kentucky Detection Kit	65°C	20 min
MDA Salmonella Senftenberg Detection Kit	65°C	20 min
MDA Mycoplasma gallisepticum Detection Kit	65°C	20 min
MDA Mycoplasma synoviae Detection Kit	65°C	20 min
MDA Infectious Laryngotracheitis (ILT) Detection Kit	63.5°C	30 min

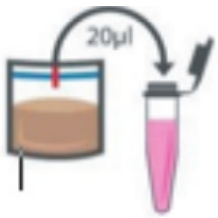
MDA Marek’s Disease Virus (MDV) Detection Kit	65°C	30 min
MDA Group I Avian Adenoviruses Detection Kit	63°C	30 min
MDA Infectious Bronchitis Detection Kit	65°C	30 min
MDA Newcastle Disease Virus Detection Kit	65°C	30 min
MDA Avian Influenza A Viruses of subtype H5 Detection Kit	65°C	30 min
MDA Avian Influenza A Viruses of subtype H7 Detection Kit	65°C	30 min
MDA Avian Influenza A Viruses of subtype H9 Detection Kit	65°C	30 min
MDA Avian Metapneumovirus Viruses Detection Kit	65°C	30 min
MDA Avibacterium paragallinarum Detection Kit	65°C	30 min
MDA Bordetella bronchiseptica Detection Kit	65°C	20 min
MDA Ornithobacterium rhinotracheale Detection Kit	65°C	20 min
MDA Avian Reovirus (MDV) Detection Kit	65°C	30 min
MDA Infectious Bursal Disease Viruses (IBDV) Detection Kit	65°C	30 min
MDA Goose Parvovirus (GPV) Detection Kit	65°C	30 min
MDA Avibacterium paragallinarum Detection Kit	65°C	30 min
Food Detection Kits		
MDA Salmonella spp. Detection Kit	65°C	20 min
MDA Listeria monocytogenes Detection Kit	65°C	20 min
MDA Escherichia coli O157:H7 Detection Kit	65°C	20 min
MDA Campylobacter jejuni Detection Kit	65°C	20 min

MDA Clostridium perfringens Detection Kit	65°C	20 min
MDA Legionella pneumophila Detection Kit	65°C	20 min
MDA Staphylococcus aureus Detection Kit	65°C	20 min
Fish Detection Kits		
MDA Aeromonas hydrophila Detection Kit	65°C	20 min
MDA Aeromonas salmonicida Detection Kit	65°C	20 min
MDA Aeromonas veronii Detection Kit	65°C	20 min
MDA Aeromonas sobria Detection Kit	65°C	20 min
MDA Infectious Pancreatic Necrosis Virus Detection Kit	65°C	30 min
MDA Infectious Haematopoietic Necrosis Virus Detection Kit	65°C	30 min
MDA Viral Hemorrhagic Septicemia Detection Kit	63°C	30 min
MDA Viral Nervous Necrosis Detection Kit	63°C	30 min
MDA Lactococcus garvieae Detection Kit	65°C	20 min
MDA Photobacterium damselae subsp. Piscicida Detection Kit	65°C	20 min
MDA Vibrio alginolyticus Detection Kit	63°C	20 min
MDA Vibrio anguillarum Detection Kit	63°C	20 min
MDA Vibrio harveyi Detection Kit	65°C	20 min
MDA Vibrio vulnificus Detection Kit	65°C	20 min
MDA Yersinia ruckeri Detection Kit	63°C	20 min
Other Animal Disease Detection Kits		

MDA Campylobacter spp Detection Kit	65°C	20 min
MDA Pasteurella multocida Detection Kit	65°C	20 min
MDA Pasteurella spp. Detection Kit	65°C	20 min
MDA Pasteurella canis Detection Kit	65°C	20 min
MDA Paenibacillus larvae Detection Kit	65°C	20 min
MDA Clostridium chauvoei Detection Kit	65°C	20 min
MDA Chlamydia abortus Detection Kit	65°C	20 min
MDA Herpes Virus Detection Kit	65°C	30 min
MDA West Nile Virus Detection Kit	65°C	30 min
MDA Avian pox Virus Detection Kit	65°C	30 min
MDA Chlamydia psittaci Detection Kit	65°C	20 min
MDA Mannheimia haemolytica Detection Kit	65°C	20 min
MDA Mycobacterium avium Detection Kit	65°C	20 min
MDA Pseudomonas aeruginosa Detection Kit	65°C	20 min
MDA Aspergillus spp kit Detection Kit	65°C	20 min
MDA Aspergillus fumigatus Detection Kit	65°C	20 min
MDA Taylorella equigenitalis Detection Kit	65°C	20 min
MDA Trypanosoma evansi Detection Kit	65°C	30 min
DNA Detection Kits		
MDA Porcine DNA Detection Kit	65°C	30 min
MDA Bovine DNA Detection Kit	65°C	30 min

MDA Chicken DNA Detection Kit	65°C	30 min
MDA Turkey DNA Detection Kit	65°C	30 min
MDA Horse DNA Detection Kit	65°C	30 min
MDA Fish DNA Detection Kit	65°C	30 min
MDA Sheep DNA Detection Kit	65°C	30 min
GMO Detection Kits		
MDA GMO 35S Detection Kit	65°C	30 min
MDA GMO NOS Detection Kit	65°C	30 min
MDA GMO FMW Detection Kit	65°C	30 min
Other Detection Kits		
MDA Bovine Viral Diarrhea Virus (BVDV) Detection Kit	65°C	30 min
MDA Feline infectious peritonitis (FIP) Detection Kit	62°C	30 min
MDA Leptospira spp. Detection Kit	63°C	30 min
MDA Brucella spp. Detection Kit	63°C	30 min
MDA Malaria Detection Kit	65°C	30 min
MDA Mycobacterium tuberculosis complex Detection Kit	65°C	30 min

How to use NucleoAMP?

- 

1st step

  Transfer sample (eg. stool, pre-enrichment liquid bacteria cell, swab, blood, saliva, body fluid, spice, food, plant and environmental samples) (20 ul for yophilized kits and

200 ul for non-lyophilized kit) to a tube containing lysis fluid for the extraction of nucleic acid (DNA or RNA) in a single step.

-  **2nd step**

  Incubate tubes for 15 minutes at 95° C to perform nucleic acid extraction.

-  **3rd step**

  Leave the tubes on a cold block or ice and at room temperature for 5 minutes.

-  **4th step**

  Transfer 20 µL (for lyophilised kit or 5 µL for non-lyophilised kit) of sample to individual reaction strips. Pipette up and down 5 times to mix.

-  **5th Step**

  Transfer reaction strips into to NovaAMP device.

-  **6th Step**

  Select the desired program from the device to start. Positive results can be determined in 5-15 minutes, but wait for 30 minutes for negative results (may show changes depending on kits and samples).

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FAQs

What is the Scigiene NucleoAMP used for?

The NucleoAMP system is designed for rapid molecular detection of specific pathogens, DNA, or RNA sequences in various samples. It is commonly used in food safety testing,

environmental monitoring, clinical diagnostics, and research applications.

How fast can the NucleoAMP deliver results?

The system is optimised for quick analysis, often delivering results within 30–60 minutes, depending on the target organism and testing protocol.

Does the NucleoAMP require specialised training to operate?

While basic laboratory knowledge is helpful, the NucleoAMP system features a user-friendly interface and pre-programmed test protocols, making it accessible to operators with minimal molecular biology experience.

Documents / Resources

	Scigiene NucleoAMP Electronic Device Molecular Detection System [pdf] Instructions NucleoAMP Electronic Device Molecular Detection System, Electronic Device Molecular Detection System, Device Molecular Detection System, Molecular Detection System, Detection System

References

- User Manual

Scigiene

Detection System, Device Molecular Detection System, Electronic Device Molecular Detection System, Molecular Detection System, NucleoAMP Electronic Device Molecular Detection System, Scigiene

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