

The EZCheck Microfluidic Nucleic Acid Testing Platform comprises a microfluidic detection cassette and a fluorescence analyzer. The unique microfluidic patent design and eLAMP amplification technology enable faster, more accurate molecular detection capable of simultaneously detecting multiple DNA/RNA targets.

Even inexperienced users can easily operate it with the help of guided instructions on the app to complete the test correctly. Compared to most current molecular detection methods used in veterinary tests, which require sample treatment and analysis in a laboratory, the EZCheck platform offers exceptional advantages in terms of timeliness, transportation cost, and reduced risk of sample degradation. The EZCheck system can perform nucleic acid detection at any location.

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EZCheck 3

Microfluidic Based Nucleic Acid Testing Platform



- FAST
- ACCURATE
- MULTI-TARGETS
- AFFORDABLE



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Features of EZCheck Platform

EZCheck microfluidic cassette

- 1 Easy Operation**
4 steps to complete the assay
- 2 Quick Results**
Obtain results in 15 minutes
- 3 Multi-targets**
Detect up to 3 targets per sample
- 4 High Sensitivity**
Compared to antigen/antibody rapid screening, nucleic acid testing has a sensitivity 1000 times higher.
- 5 Sample in, Result out**

EZCheck nucleic acid analyzer



Leading Technologies

Microfluidic eLAMP technology enables high-efficient, reliable and low-cost multi-targeted DNA / RNA detection, comparing to the complex and expensive traditional Taqman qPCR.

Innovative microfluidic cassette design enables the manipulation of fluids with high precision, reducing the risk of errors and improving the reproducibility of results.

Pre-loaded reagent cassettes are stored and shipped at room temperature, unlike the traditional PCR reagents requiring shipping and storage at -20°C.

Waste collection zone

QC Zone

Freeze-dried reagent storage zone
Enzyme reaction zone

Flow channel

Sample loading zone
Reagent retention and mixing zone



Standard Lab Test

The patented design of EZCheck microfluidic cassette utilizes unique potential difference conversion, channel gradient design, and capillary action to guide and control the flow and mixing of tiny liquids for fast and efficient biological detection.

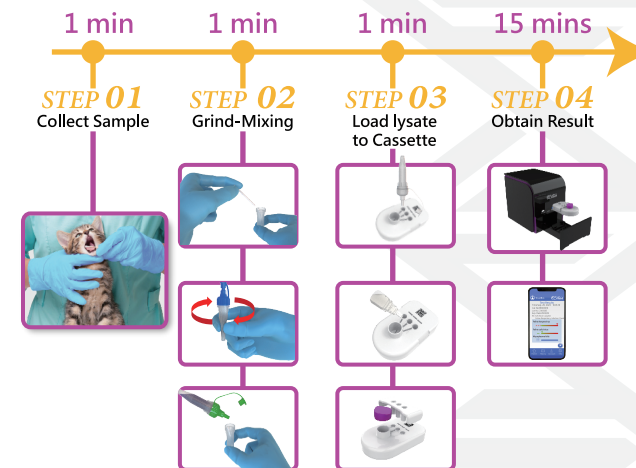
The microfluidic cassette design includes sample loading zone, reagent retention and mixing zone, flow channel zone, freeze-dried reagent storage zone, enzyme reaction zone, quality control zone, waste liquid collection zone, etc. The preloaded and closed-loop design of reagents significantly reduces reaction time, minimizes contamination, and enhances detection efficiency.

The EZCheck microfluidic cassette features a multi-channel design that allows for simultaneous detection of multiple nucleic acid targets for a single sample, thereby improving detection efficiency. The precision control of liquid volume, flow rate, and mixing ratio also enhance detection accuracy and sensitivity.

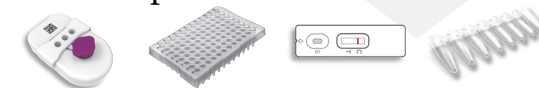


Operational Procedures

Easy four (4) steps to complete the whole process. There are no special lab tools required that allows any inexperienced to complete the nucleic acid tests with only 3 minutes hand-on time.



Product Comparison



| | EZCheck 3 | Standard Lab Test | Rapid Test | Other Isothermal Amplification |
|-----------------------------|--|--|---------------------------------|--------------------------------------|
| Methodology | Microfluidics Based LAMP | PCR, RT-qPCR | Antigen/Antibody Test | LAMP |
| Sample Types | Plasma/Serum/Swab/Saliva/Stool/Urine | Plasma/Serum/Swab | Swab/Whole blood | Swab |
| Targets | Detect three nucleic acid targets simultaneously | Nucleic Acids/multiplex | Antigen/Antibody | One Nucleic Acid/tube |
| Extraction | X | V (30 mins-90 mins) | X | Required |
| Detection Time | 5-15 mins | >90 mins | 15 mins | 30 mins |
| Analyzer/price | Palm-sized reader/Low | Benchtop/High | Not required/Low | Benchtop/Low |
| Accuracy/Sensitivity | High/High | High/High | High/Low to Middle | High/High |
| Qualitative/Quantitative | Qualitative/Semi-Quantitative | Quantitative | Qualitative | Qualitative |
| Limit of Detection | 100-1,000 copies/rxn depending & protocol | 5-500 copies/rxn | 10,000-100,000 copies/rxn | 100-5,000 copies/rxn |
| Transport/Storage Condition | Room Temp. | Frozen(-20°C) | Room Temp. | Frozen(-20°C) |
| Price | Low to Middle | High | Low | Low to Middle |
| Pros/Cons | Fast, High accuracy, Compact | High cost, High accuracy, Professional training required | Fast, Low sensitivity, Low cost | Fast, Require professional operation |