



*To a brighter future...*

**REGABIO**

TECHNOLOGY INC



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REGA BIOTECHNOLOGY INC.  
[www.regabio.com](http://www.regabio.com)

# Profile



## *Our Goal*

*To improve people's living quality*

## *Our Passion*

*Lateral-flow rapid test design and development*

## *Our Mission*

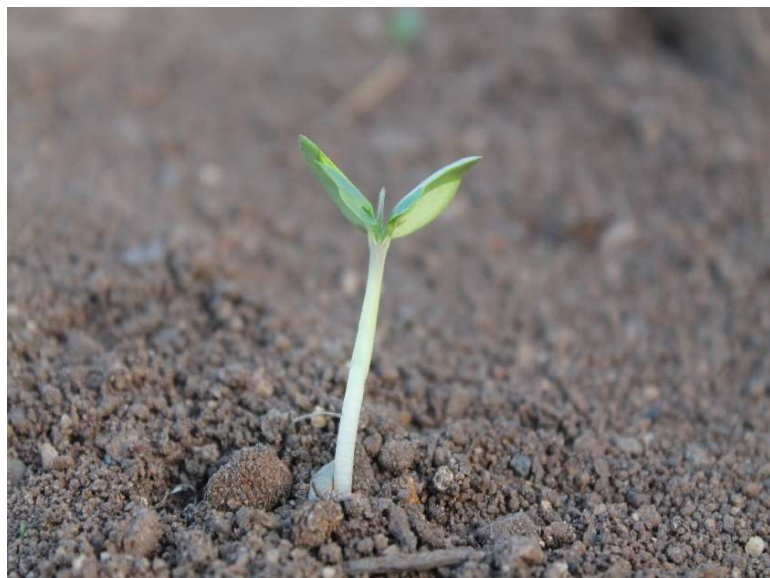
*To increase crop productivity, prevent diseases, improve human health*

Rega Biotechnology Inc. is a leading company in lateral-flow rapid test development and manufacture in Taiwan. Established in 2004 with a goal to improve people's living quality, Rega Biotechnology Inc. has been devoting not only to research and technology development, but also to biotech services as well as bio material preparations for lateral-flow test product over a decade. With highly incentive, company focus on developing, producing and marketing rapid test products and instruments for product development and result interpretation.

We have been committing to quality. Products complied with ISO 9001:2015.

# Products

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- Rapid Test Kit

- 04~09 Food Allergen

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- Nucleic Acid Rapid Detection

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- Lateral Flow Instrument

- 22~24 RP-1000 Rapid Test Printer

- RP-2000 Rapid Test Printer

- RT-2100 Rapid Test Reader

# Test Kits

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We commercialize diagnostic test for plant virus, finfish virus and food safety in agriculture field. Products are distributed globally across many regions including Asia, North America and Europe.

Our team has sufficient experience to integrate mature immune raw material production technology, and develop diagnostic test products for testing various target materials, by mastering the technical source of the industry, we have been actively developing diagnostic tests for numerous inspection applications including viruses and microorganism detections, disease detection, clinical medicine and food safety.

# Food Allergen

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A food allergy is an overreaction of immune system to a food or a certain substance in food. The body's immune system sees the substance (usually a protein) as a threat and reacts by causing symptoms. Food allergy symptoms can vary from mild to severe.

Food allergy reactions can be triggered by numerous foods. Among them, milk, egg, peanut, tree nuts, soy, fish, shellfish and gluten containing grains are the mostly reported ones. At present there is no cure for food allergies. The only way to prevent food allergy is to avoid the intake of the food the patient is allergic to.

Food allergies are common in the developed world. The population suffer from at least one food allergy has significantly increased in recent decades. The issue thus has driven public and governments' awareness, and legislation of related regulations has become urgent and important.

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## Almond

Agitest Food Allergen Rapid Test – Almond is an immunochromatographic test for the detection of almond in food. Results are interpreted visually.

**Application:**

Food processing, shared facilities, surface swab, inbound ingredients, final products

**Detection limit:**

Food sample: 1 ppm almond

Swab testing: 0.1 µg almond



RT 10156020

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## Buckwheat

Agitest Food Allergen Rapid Test – Buckwheat is an immunochromatographic test for the detection of buckwheat in food. Results are interpreted visually.

**Application:**

Food processing, shared facilities, surface swab, inbound ingredients, final products

**Detection limit:**

Food sample: 1 ppm buckwheat

Swab testing: 0.1 µg buckwheat



RT 10146020

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## Casein

Agitest Food Allergen Rapid Test – Casein is an immunochromatographic test for the detection of casein in food. Results are interpreted visually.

**Application:**

Food processing, shared facilities, surface swab, inbound ingredients, final products

**Detection limit:**

Food sample: 100 ppm casein

Swab testing: 10 µg casein



RT 10086020

## Egg

Agitest Food Allergen Rapid Test – Egg is an immunochromatographic test for the detection of egg in food. Results are interpreted visually.

**Application:**

Food processing, shared facilities, surface swab, inbound ingredients, final products

**Detection limit:**

Food sample: 1 ppm whole egg

Swab testing: 0.1 µg whole egg



RT 10056020

## Fish(Cod)

Agitest Food Allergen Rapid Test – Fish is an immunochromatographic test for the detection of codfish in food. Results are interpreted visually.

**Application:**

Food processing, shared facilities, surface swab, inbound ingredients, final products

**Detection limit:**

Food sample: 0.1 ppm codfish

Swab testing: 0.01 µg codfish



RT 10176020

## Gluten

Agitest Food Allergen Rapid Test – Gluten is an immunochromatographic test for the detection of gluten in food. Results are interpreted visually.

**Application:**

Food processing, shared facilities, surface swab, inbound ingredients, final products

**Detection limit:**

Food sample: 20 ppm gluten

Swab testing: 2 µg gluten



RT 10076020



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## Peanut

Agitest Food Allergen Rapid Test – Peanut is an immunochromatographic test for the detection of peanut in food. Results are interpreted visually.

**Application:**

Food processing, shared facilities, surface swab, inbound ingredients, final products

**Detection limit:**

Food sample: 1 ppm peanut

Swab testing: 0.1 µg peanut



RT 10106020

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## Shellfish

Agitest Food Allergen Rapid Test – Shellfish is an immunochromatographic test for the detection of shellfish in food. Results are interpreted visually.

**Application:**

Food processing, shared facilities, surface swab, inbound ingredients, final products

**Detection limit:**

Food sample: 1 ppm shellfish

Swab testing: 0.1 µg shellfish



RT 10166020

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## Soy

Agitest Food Allergen Rapid Test - Soy is an immunochromatographic test for the detection of soy in food. Results are interpreted visually.

**Application:**

Food processing, shared facilities, surface swab, final products

**Detection limit:**

Food sample: 10 ppm soy

Swab testing: 1 µg soy



RT 10206020



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## Raw Soybean

Agitest Food Allergen Rapid Test – Raw Soybean is an immunochromatographic test for the detection of raw soybean in food. Results are interpreted visually.

**Application:**

Raw materials, inbound ingredients, surface swab, unprocessed food

**Detection limit:**

Food sample: 1 ppm soy

Swab testing: 0.1 µg soy



RT 10278020

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## Mango

Agitest Food Allergen Rapid Test – Mango is an immunochromatographic test for the detection of mango in food. Results are interpreted visually.

**Application:**

Food processing, shared facilities, surface swab, inbound ingredients, final products

**Detection limit:**

Food sample: 2 ppm mango

Swab testing: 0.2 µg mango



RT 10318020



# Food Allergen Rapid Test

## Lab Kit

Art. No.	Product	Tests per kit	Storage	Components
RT10156020	Almond	20	2~30 °C	S / B / L / M
RT10146020	Buckwheat	20	2~30 °C	S / B / L / M
RT10086020	Casein	20	2~30 °C	S / B / L / M
RT10056020	Egg	20	2~30 °C	S / B / L / M
RT10176020	Fish (Cod)	20	2~30 °C	S / B / L / M
RT10076020	Gluten	20	2~30 °C	S / B / L / M
RT10106020	Peanut	20	2~30 °C	S / B / L / M
RT10278020	Raw Soybean	20	2~30 °C	S / B / L / M
RT10166020	Shellfish	20	2~30 °C	S / B / L / M
RT10206020	Soy	20	2~30 °C	S / B / L / M
RT10318020	Mango	20	2~30 °C	S / B / L / M

## Environmental Swab Kit

Art. No.	Product	Tests per kit	Storage	Components
SR00013220	Cotton Swab	20	2~30 °C	-

## Home Kit

Art. No.	Product	Tests per kit	Storage	Components
RT10152002	Almond	2	2~30 °C	S / B / H / M
RT10142002	Buckwheat	2	2~30 °C	S / B / H / M
RT10089002	Casein	2	2~30 °C	S / B / H / M
RT10057002	Egg	2	2~30 °C	S / B / H / M
RT10173002	Fish (Cod)	2	2~30 °C	S / B / H / M
RT10079002	Gluten	2	2~30 °C	S / B / H / M
RT10100002	Peanut	2	2~30 °C	S / B / H / M
RT10163002	Shellfish	2	2~30 °C	S / B / H / M
RT10204002	Soy	2	2~30 °C	S / B / H / M

**S** Strip Pouches  
**B** Buffer  
**M** Instruction Manual

**L** Scoop  
 Dropper  
 Tubes Rack  
 4mL Sample Tube  
 1.5mL Microcentrifuge Tube

**H** Scoop  
 Dropper  
 Tube Holder  
 Small Tube  
 Results Card



# Food Safety

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Since food-borne illness occurs frequently nowadays, food safety has become a major issue which not only arouses public attention but forces governments' actions in legislation and inspection. Foods are easily to be contaminated during production and in storage. Contaminations can come from microorganisms, drug residues, pesticides and so on. Periodically check on the existence of food contaminants therefore is very crucial to keep foods safe. Being advantaged by the merits of high accuracy, efficiency and convenience, lateral flow immunoassay plays an important role in the safe food procedures from industry to consumers.



## Bovine Milk

Agitest Food Safety Rapid Test – Bovine Milk is an immunochromatographic test for the detection of bovine milk (casein) in food (goat milk). Results are interpreted visually.

Application:

Adulteration of bovine milk to goat's milk,  
Inbound goat milk, final products

Detection limit:

Food sample:  $\geq$  1 % bovine milk



DM 10016050

## Aflatoxin Total

Agitest Food Safety Rapid Test - Aflatoxin Total is an immunochromatographic test for detection of aflatoxin B1, B2, G1, and G2 in foods and feeds. Results are interpreted visually.

Application:

Production, processing, storage

Detection limit:

Food sample: 5 ppb aflatoxin B1 (RT10295050)

Food sample: 2 ppb aflatoxin B1 (RT10235050)



RT 10295050



RT 10235050

## Aflatoxin M1

Agitest Food Safety Rapid Test - Aflatoxin M1 is an immunochromatographic test for the detection of aflatoxin M1 in milk. Results are interpreted visually.

Application:

Liquid dairy products, raw milk, milk powder

Detection limit:

Food sample: 0.5 ppb aflatoxin M1 in milk



RT 10225050

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## Sulfonamides

Food Safety Rapid Test – Sulfonamides  
Application: milk



NP 10018096

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## Chloramphenicol

Food Safety Rapid Test - Chloramphenicol  
Application: milk



NP 10028096

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## Tetracyclines

Food Safety Rapid Test – Tetracyclines  
Application: milk



NP 10038096

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## Beta-Lactams

Food Safety Rapid Test –  $\beta$ -Lactams

Application: milk



NP 10048096

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## Quinolones

Food Safety Rapid Test - Quinolones

Application: milk



NP 10058096

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## Lincomycin

Food Safety Rapid Test – Lincomycin

Application: milk



NP 10078096

## Food Safety Rapid Test

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Art. No.	Product	Tests per kit	Storage	Components
DM10016050	Bovine Milk	50	2~30 °C	C / B / D / M
RT10295050	Aflatoxin Total	50	2~30 °C	5 ppb / S / B / M
RT10235050	Aflatoxin Total	50	2~30 °C	2 ppb / S / B / M
RT10225050	Aflatoxin M1	50	2~30 °C	S / B / M
NP10018096	Sulfonamides	96	2~8 °C	S / W / M
NP10028096	Chloramphenicol	96	2~8 °C	S / W / M
NP10038096	Tetracyclines	96	2~8 °C	S / W / M
NP10048096	$\beta$ -Lactams	96	2~8 °C	S / W / M
NP10058096	Quinolones	96	2~8 °C	S / W / M
NP10078096	Lincomycin	96	2~8 °C	S / W / M

S

Strip Pouches

D

Dropper

C

Cassette Pouches

W

Microwells

B

Buffer

M

Instruction Manual





# Agriculture

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Plant virus transmission can be via many ways, including instruments, insect bites, leaf wounds, etc. Once infected, the plant is not easily to be cured, and the virus could be transmitted before the symptoms can be seen, causing a greater prevalence. Therefore, early detection of viral infection, and isolation or elimination of diseased plants are critical to plant virus control.

Conventional virus detection methods such as PCR and ELISA are costly, time-consuming, and require experienced operators, which restrict the methods' applicability in field (onsite?) mass screening. Lateral flow immunoassay is a simple cellulose-based technique which makes up the drawbacks of the conventional methods. It relies on specific antigen-antibody binding to detect the presence or absence of the target analytes without the requirement of equipment and trained people. The method is fast and easy-to-do and test results can be interpreted visually.

## CymMV + ORSV

(*Cymbidium Mosaic Virus, Odontoglossum Ringspot Virus*)

Agitest Plant Virus Rapid Test 2in1 – CymMV + ORSV is an immunochromatographic test for the detection of CymMV and ORSV virus in plant and orchid. Combining two viruses on one single strip is time saving and cost effective, providing both high specificity and sensitivity.

Application:

Plant field, orchid breeding, tissue culture, quarantine screening



RT 10132050

## CaCV (*Capsicum Chlorosis Virus*)

Agitest Plant Virus Rapid Test – CaCV is an immunochromatographic test for the detection of *Capsicum Chlorosis Virus* in plant and orchid. Results are interpreted visually.

Application:

Plant field, orchid breeding, tissue culture, quarantine screening



RT 10183050

## CMV (*Cucumber Mosaic Virus*)

Agitest Plant Virus Rapid Test - CMV is an immunochromatographic test for the detection of *Cucumber Mosaic Virus* in plant and orchid. Results are interpreted visually.

Application:

Plant field, orchid breeding, tissue culture, quarantine screening



RT 10193050

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## PIAMV (*Plantago Asiatic Mosaic Virus*)

Agitest Plant Virus Rapid Test – PIAMV is an immunochromatographic test for the detection of *Plantago Asiatic Mosaic Virus* in plant and Lily. It can be completed within 15 minutes at room temperature, easy to use with high specificity and accuracy. Results are interpreted visually.



RT 10256050

### Application:

Plant field, bulb breeding, tissue culture, quarantine screening

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## LMOV (*Lily Mottle Virus*)

Agitest Plant Virus Rapid Test – LmoV is an immunochromatographic test for the detection of *Lily Mottle Virus* in plant and Lily. It can be completed within 15 minutes at room temperature, easy to use with high specificity and accuracy. Results are interpreted visually.



RT 10266050

### Application:

Plant field, bulb breeding, tissue culture, quarantine screening

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# Agriculture Rapid Test

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## Plant - Orchid

Art. No.	Product	Tests per kit	Storage	Components
RT10132050	CymMV+ORSV	50	2~30 °C	S / B / D / K / U / R / M
RT10183050	CaCV	50	2~30 °C	S / B / D / G / U / M
RT10193050	CMV	50	2~30 °C	S / B / D / G / U / M
RT10132005	CymMV+ORSV	5	2~30 °C	S / B / D / G / U / R / M
RT10183005	CaCV	5	2~30 °C	S / B / D / G / U / M
RT10193005	CMV	5	2~30 °C	S / B / D / G / U / M

## Plant - Lily

Art. No.	Product	Tests per kit	Storage	Components
RT10256050	PIAMV	50	2~30 °C	S / B / D / G / U / M
RT10266050	LMoV	50	2~30 °C	S / B / K / U / M
RT10256005	PIAMV	5	2~30 °C	S / B / D / G / U / M
RT10266005	LMoV	5	2~30 °C	S / B / K / U / M

- S** Strip Pouches
- D** Dropper
- U** Tube Rack
- B** Sample Buffer
- K** Grinding Stick
- R** Results Card
- M** Instruction Manual
- G** Grinding Bag



# Aquaculture

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Animal Farms provides a controlled environment which allows mass reproduction of livestock in an economic way. However overcrowded environment and shortened individual distance higher the risk of disease outbreaks. Disease controls and prevention thus are critical for animal farms. Agitest Aquaculture Rapid Tests is able to detect the presence of finfish viruses in an early stage of disease outbreak and makes the controlling of virus more efficient.

## NNV (*Nervous Necrosis Virus*)

Agitest Aquaculture Rapid Test – NNV is an immunochromatographic test for the detection of *Nervous Necrosis Virus* in finfish, essential screening for aqua-farms in order to prevent pathogens from entering the system, test can be completed within 15 minutes at room temperature, easy to use with high specificity and accuracy. Results are interpreted visually.

### Application:

Fish breeding industry, grouper breeding, food organism, quarantine screening



RT 10037150

## GIV (*Grouper Iridovirus*)

Agitest Aquaculture Rapid Test – GIV is an immunochromatographic test for the detection of *Grouper Iridovirus* in finfish, essential screening for aqua-farms in order to prevent pathogens from entering the system, test can be completed within 15 minutes at room temperature, easy to use with high specificity and accuracy. Results are interpreted visually.

### Application:

Fish breeding industry, grouper breeding, food organism, quarantine screening



RT 10027150

## Aquaculture Rapid Test

Art. No.	Product	Test per kit	Storage	Components
RT10037150	NNV	50	2~30 °C	S / B / D / U / M
RT10027150	GIV	50	2~30 °C	C / B / D / U / M

**S**

Strip pouches

**D**

Dropper

**C**

Cassette pouches

**U**

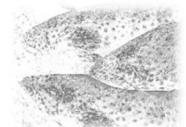
Tube Holder

**B**

Buffer

**M**

Instruction manual



# NARD

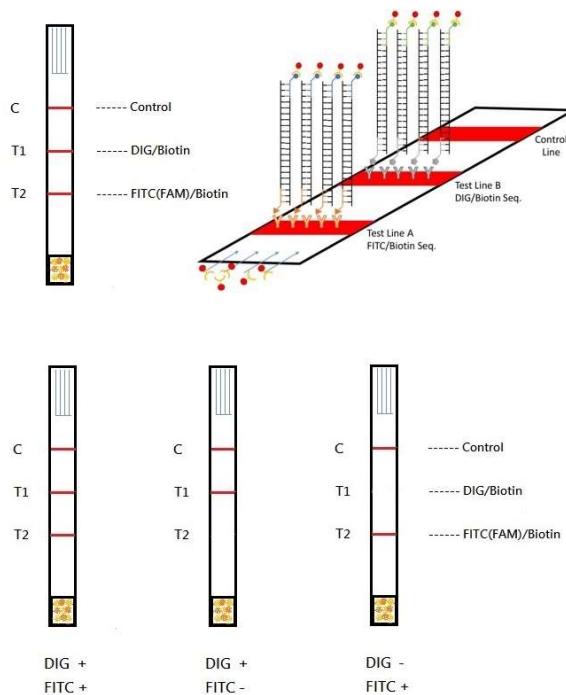
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KL 10018004

## Nucleic Acid Rapid Detection Kit

Is a lateral flow immunochromatographic assay for PCR product analysis. It enables nucleic acid detection by immobilizing and colorizing FITC/Biotin (FAM/Biotin) or DIG/Biotin labeled PCR products with anti-DIG or anti-FITC (FAM) antibodies. With the strip customers can analyze PCR products without the need for conducting gel electrophoresis. Kit strip is not only possessing the merits of traditional lateral flow assay, but surpasses in sensitivity and efficiency.



Art. No.	Product	Test per kit	Storage	Components
KL10018004	NARD	100	2~8 °C	S / B / M

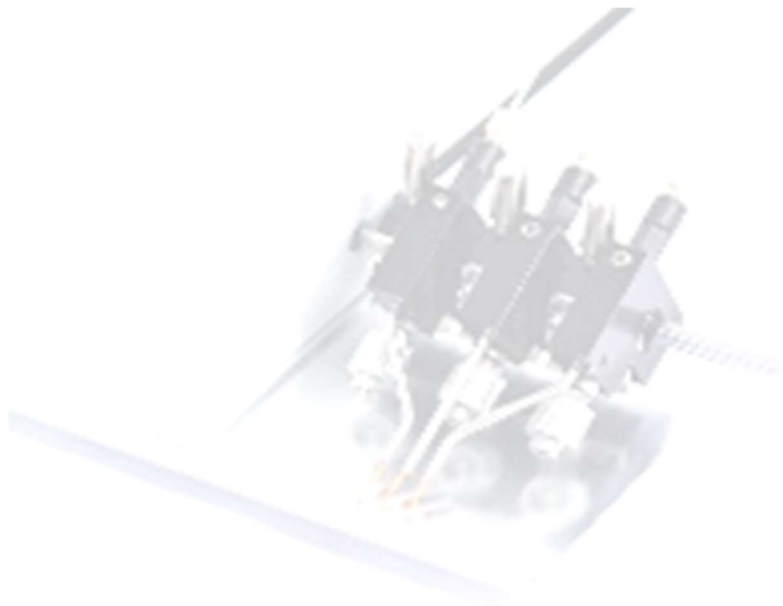
- S** Strip pouches
- B** Buffer
- M** Instruction manual

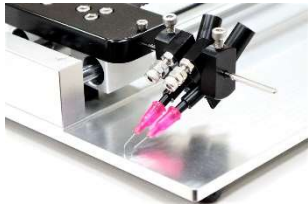


# Instrument

## Strip manufacturing

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NP 90023801

## RP-1000

Agismart Rapid Test Printer - RP1000 is a device for developing and producing rapid test reagent. It is easy to use, and has a stable quality. RP-1000 can draw two lines simultaneously, also possesses extra functions such as speed control, and adjustable line thickness. RP-1000 is ideal for use in laboratories and small-scale production.



NP 90068801

## RP-2000

Agismart Rapid Test Printer - RP2000 is a device for developing and producing rapid test reagent. It is easy to use, and has a stable quality. RP-2000 can draw two to three lines simultaneously with extra nozzles. It possesses extra functions such as speed control, and adjustable line thickness. Compare to RP-1000, it provides an additional quantitative function that allows users to draw gold-Ab conjugation on gold-pad, and to control the ejecting amount of liquid. RP-2000 is perfect for use in laboratories and small-scale production.



NP 90044801

## RT-2100

Portable Rapid Test Reader - RT2100 is a portable reader, which provides an objective numerical value for rapid test results, distinguish the differences of colors from various biochemical reactions and analyze the reactants to provide quantitative result. RP-2100 also equips USB interface allowing outputs of test results for further data analysis.

# Instrument

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## Rapid Test Printer


Art. No.	Product	Max. Length	Dispense line	Min. Volume	Dimension
NP90044801	RP-1000	300 mm	2 lines	100 $\mu$ L	236x104x94.5 mm
NP90068801	RP-2000	300 mm	2~3 lines	75~250 $\mu$ L	A 600x170x117 mm B 224.5x133x129 mm

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## Rapid Test Reader

Art. No.	Product	Detector	Display	Dimension
NP90044801	RT-2100	CMOS	5" resistive touch panel	236x104x94.5 mm





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