

GenePasQ[®]

Shrimp Disease DNA Test Kit

Product Features & Components



 **SURE Marketing**
Company Inc.

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TBA
TOKYO BIO-ARMY

日生研
Nikken Bio Medical

I. Introduction to the GenePasQ[®] Shrimp Disease DNA Test Kit

For shrimp farming, it is very important to watch the health conditions of shrimp continuously. Particularly, the shrimp farmer is threatened with major diseases, namely; **AHPND / EMS** (*Vibrio parahaemolyticus*), **IHNV** (*Infectious Hypodermal and Haematopoietic Necrosis Virus*), **WSSV** (*White Spot Syndrome Virus*) and **EHP** (*Enterocytozoon hepatopenaei*). Using the conventional method, these are checked individually which take a long time and need special techniques. The **GenePasQ[®] Shrimp Disease DNA Test Kit** was developed to detect these 4 diseases simultaneously. After PCR, you can visually judge the existence of the target genes with the **PAS** (Printed Array Strip) / DNA Chromatography method.

Please refer to the Scientific Article entitled "A rapid method for simultaneously diagnosing four shrimp diseases using PCR-DNA chromatography method" by K. Koiwai, T. Kodera, J. Thawonsuwan, M. Kawase, H. Kondo and I. Hirono which was published in the 24 October 2017 issue of *The Journal of Fish Diseases*.
(You can download a copy at www.sure-bio.com)

II. Why GenePasQ[®] is UNIQUE

- a. Detects 4 diseases simultaneously.
 - **EHP** (*Enterocytozoon hepatopenaei*)
 - **WSSV** (*White Spot Syndrome Virus*)
 - **IHNV** (*Infectious Hypodermal and Haematopoietic Necrosis Virus*)
 - **AHPND / EMS** (*V. parahaemolyticus*)
- b. Electrophoresis is not needed.
- c. Easy, Rapid & Safe to Use
- d. Judge the results **by eyes** (visually)
- e. Sensitivity is **10 times better** than Gel Electrophoresis.
- f. Can detect **EHP** and **AHPND/EMS** in DNA samples from **SOIL**, **IHNV** in DNA samples from **BOILED SHRIMP**, and **WSSV** in DNA samples from a **CRAB**.



III. Kit Contents of the GenePasQ® Shrimp Disease DNA Test Kit (Good for 100 tests)

Label	Name of Component	Contents	Quantity
A	C-PAS (F6) Strip	100 strips	1 vial
	* Be sure to hold a part of absorbing pad of C-PAS (F6) with dried hands during use.		
B	Primer solution	240 µL	1 vial
C	Latex solution	180µL	1 vial
D	Dilution buffer	1.2mL	2 vials



Storage Conditions and Expiry of the GenePasQ® Kit

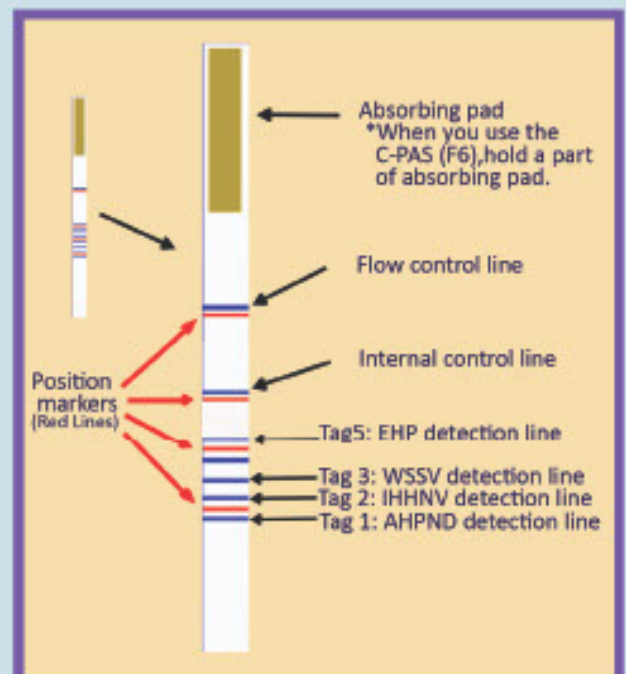
- Store the kit at 2-8 °C, but DO NOT FREEZE.
- Use the kit at 20-30 °C. The kit must be returned to storage at 2-8 °C immediately after use.
- Do not use the kit after the expiration date indicated on the outside box.

IV. Explanation of the C-PAS (F6) Strip

- **Absorbing pad**
Be sure to hold a part of the absorbing pad of C-PAS (F6) with dried hands during use.
- **Position markers (Red lines)**
The position of emerging lines is referenced against these Position Markers (Red lines). These Position Markers always appear with or without reaction.
- **Flow control line**
The blue line disappears when the solution passes through it.

- **Detection line**
A blue positive line appears at the detection line if the target genes exist in your sample.

The blue detection lines that exist before the reaction will **temporarily disappear** when the solution passes through them. After that, the reaction line will **appear again** depending on the reaction. The blue lines that you see before using the C-PAS (F6) strip will **gradually fade** but these changes will have no effect on the reaction.



GenePasQ® DNA Positive Control Set

(For "GenePasQ® Shrimp Pathogen Detection Kit")

-EHP, WSSV, IHNV, AHPND-

I. Introduction to the DNA Positive Control Set

This is a component of the GenePasQ® Shrimp Pathogen Detection Kit.

Each **DNA Positive Control** contains synthesized DNA fragments of the individual DNA sequence of the pathogens.

These **DNA Positive Controls** can be used for initial training to familiarize with the use of the GenePasQ® Pathogen Detection Kit.

They are useful to check if the PCR process & settings are properly done.

II. Contents of the DNA Positive Control Set

(100 tests / 1.0 µL per test)

Cap Color	Name of Component	Content	Quantity
Red	DNA Control (EMS / AHPND)	150µL	1 vial
Blue	DNA Control (WSSV)	150µL	1 vial
Green	DNA Control (EHP)	150µL	1 vial
Yellow	DNA Control (IHNV)	150µL	1 vial



GenePasQ® DNA Positive Control Set

(For "GenePasQ® Shrimp Pathogen Detection Kit")

-EHP, WSSV, IHNV, AHPND-

III. Usage of the DNA Positive Control Set

Please follow the Quick Guide Testing Protocol of GenePasQ® Shrimp Pathogen Detection Kit.

You can use this **DNA Positive Control** as the extracted DNA from a sample.

Please refer to GenePasQ® Testing Protocol: Section 3. When you complete the test, please look at the positions on the C-PAS (F6) strip. If you see the blue line in the correct position for each pathogen, you can confirm that the PCR process of the testing procedure was properly done.

If the blue line does **not** appear in the correct position, you need to check the PCR process / protocol.

IV. Storage of the DNA Positive Control Set

Always store the GenePasQ® **DNA Positive Control Set** at **-20°C** when not in use.



Warranty

Nikken Biomedical Laboratory, Inc. makes no warranty of any kind, either expressed or implied, except that the materials are made of standard quality. The Buyer assumes all risk and liability resulting from the use of this product. There is no warranty on the fitness of the product for any purpose. **Nikken Biomedical Laboratory, Inc.** agrees to replace any defective product but expressly disclaims liability for damages including special or consequential damages or expenses arising directly or indirectly from the use of this product.

*This product uses a DNA chromatography strip: C-PAS (F6), which is produced by **TBA, Co., Ltd.**: Patent licensed by **NGK INSULATORS, Ltd.**

Exclusive Distributors:

PT. SURE Marketing Company
Ruko Piazza Venezia
(Palais de Europe)
Jl. Bulevar Eropa No.33
Lippo Karawaci, Tangerang 15115
Banten - INDONESIA

Email:
agus.setiawan@sure-bio.com

Website:
<http://www.sure-bio.com>

SURE Marketing Company, Inc.
Suite 706 Metropolitan
Terraces Condominium
Sacred Heart Street
San Antonio Village
Makati City 1203, PHILIPPINES

Email:
smci@sure-bio.com

Website:
<http://www.sure-bio.com>

The Representative Office of
SURE Marketing Co./ Inc. in HCMC
No. 2A, Street No. 34
Binh Phu Residential Area
Ward 10, District 6
Ho Chi Minh City
Socialist Republic of VIETNAM

Email:
trinh.nhung@sure-bio.com

Website:
<http://www.sure-bio.com>

BauerGex
22 15th Avenue North
Hopkins, MN 55343
UNITED STATES OF AMERICA

Email:
bauze@aol.com
maggiempb@hotmail.com

Website:
<http://www.sure-bio.com>

Background Information on GenePasQ® and the Companies behind It:

The GenePasQ® DNA Test Kits were developed jointly by Tokyo University of Marine Science and Technology (TUMSAT) under Prof. Ikuo Hirono, and TBA Co., Ltd.

The GenePasQ® DNA Test Kit is manufactured by Nikken Bio Medical Laboratory, Inc. (Kyoto, JAPAN) under license from and in collaboration with TBA Co., Ltd. (Sendai, Miyagi Prefecture, JAPAN).

SURE Marketing Co., Inc. is the authorized exclusive Agent and Distributor worldwide of the GenePas® DNA Test Kits or Genetic Testing Tools and its accessories, and the GenePasQ® portable PCR instruments and its accessories to non-clinical markets.

