

Vibrio-LAMP Detection Kit (Colorimetric)

• DL02A100 Size

100 Reaction

INSTRUCTIONS FOR USE

1. PRODUCT NAME:

Vibrio-LAMP Detection Kit (Colorimetric)

Cat No : DL02A100 Size : 100 reactions

2. MANUFACTURER:

SuGenomik Biyoteknoloji, METU Technopolis, Yenimahalle, Ankara.

3. INTENDED USE

Vibrio-LAMP Detection Kit is a qualitative in vitro diagnostic test for the detection of nucleic acids from Vibrio anguillarum in fish samples. This product has been designed to target groEL gene of Vibrio anguillarum.

4 KIT CONTENT

4. KII CONTENT	
Content	100 Reaction
Vibrio-LAMP Mastermix	1800 μΙ
Primer Mix	250 μl
Positive Control	50 μl
Negative Control	الب 50

5. STORAGE CONDITIONS

Store at -20±5°C away from light for 12 months.

6. SPECIMEN PREPARATION AND STORAGE

- > It is recommended that specimens shall be used immediately after collection. However, the specimens can be stored maximum 4 days at 2-8℃ in a fridge or maximum 1 year at -20℃ in a freezer if immediate use is not achievable.
- > Specimens shall be divided into amounts required for one testing and stored at -20°C in a freezer so as to avoid from thawing repeatedly.
- > Specimens that are no longer needed shall be put in a container for liquids and disposed as liquid medical waste.

7. PRE-TEST PREPARATIONS

- \triangleright Reagents shall be stored at -20°C and be avoided from repeated freezing and thawing.
- > Reagents shall be used after completely thawed and well mixed.
- > Since the positive control can be degraded, it is recommended to be aliquoted into small volumes.

8. SPECIMEN PRETREATMENT

While it is possible to use various ways and kits adopted in laboratories to extract nucleic acids and apply on this product, it is recommended that Quick DNA/RNA Extraction Solution (Sugenomics Biotechnology, Cat#: NA04A100) shall be used for nucleic acid extraction and users shall follow the protocol included in the kit handbook. After being extracted, nucleic acids shall be stored at $-20\pm2^{\circ}$ C in a freezer and shall be divided into small.

9. ISOTHERMAL LAMP PCR

9.1) Isothermal LAMP PCR Solution Preparation (on ice)

- Thaw kit components at room temperature.
- b) Mix thoroughly to ensure homogeneity, centrifuge briefly and then put on the ice.
- c) Prepare the reaction mix based on the table below.
- d) It is recommended to use positive and negative controls for each test.
- e) Spin down all reaction mixture and move to the incubator or thermal cycler.

Components	Sample DNA	Positive Control	Negative Control
Vibrio-LAMP Mastermix	17.5 μl	17.5 μl	17.5 μl
Primer Mix	2.5 µl	2.5 μl	2.5 μl
Sample DNA	5 μl	-	-
Positive Control	-	5 μl	-
Negative Control	-	-	5 μl
Total Volume	25 µl	25 µl	25 µl

9.2) Reaction Set Up Conditions

- > Set incubator temperature at 70 °C.
- ➤ Load the reaction tubes, and then start the amplification reaction for 35 minutes at 70 °C.
- \triangleright 35 minutes later, inactivate the polymerase using the heating block for 5 minutes at 90 °C.

Steps	Temp.	Time
Amplification	70 ℃	35 min
Enzyme Deactivation	90 ℃	5 min





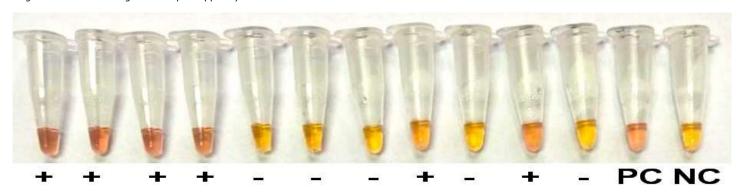




10. EVALUATIONS of RESULTS

Colorimetric detection is available by as pink-red for positive samples and yellow for negative results (Figure 1).

Figure 1. Colorimetric detection of Vibrio anguillarum by Vibrio-Lamp Detection Kit (Colorimetric). Positive control and positive samples appear red-pink. Negative control and negative samples appear yellow.



11. PRODUCT SPECIFICITY

- Minimum detection limit is 50 viral genomes equivalent per test.
- Negative Sample (concentration: 0 genome/test)
 Positive Sample contains equivalent to 1000 genomes/test

12. LIMITATIONS

- Test result is for the reference only in clinical practice, it cannot be the sole evidence for diagnosis.
- Negative results can be caused by low quality of nucleic acid extraction, improper storage conditions and storage period, and inhibitors in the specimen, nucleic acid degradation, etc.
- False negative or false positive results are likely to be caused by inappropriate collecting, transportation and handling of specimens, or unsuitable experiment operation and environment.



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