



# EnBio Medaka Vitellogenin Rapid Test

Cat#: EBT-MVRT-IC-EX

## ■ Principles

EnBio Medaka Vitellogenin Rapid Test is a chromatographic immunoassay for the semi-quantitative detection of vitellogenin, a precursor of egg yolk protein, in medaka.

The EnBio Medaka Vitellogenin Rapid Test has a letter of “T” and “C” as test line and control line on the surface of the device. Both the test line and control line in result window are not visible before applying any samples. The control line is used for procedural control. Control line should be always appeared if the test procedure is performed properly and the test reagents of control line are working. A red test line will be visible in the result window if there is enough vitellogenin in the specimen.

The specially selected medaka vitellogenin antibodies are used in test band as both capture and detector materials. These enable the EnBio Medaka Vitellogenin Rapid Test to identify the presence of endocrine disrupting effecting chemicals in aquatic systems.

## ■ Materials provided

- 1) EnBio Medaka Vitellogenin Rapid Test kits
- 2) One(1) Instruction for use

## ■ Additional materials and equipment required

A) For ELISA assay

- 1) Pipettes or pipetting equipment with disposable tips (20-200μl).
- 2) PBS (Phosphate buffered saline) or TBS (Tris buffered saline)

B) For plasma sample preparation

- 1) Disposable 1.5ml plastic tubes
- 2) Crashed ice and ice box for anesthesia
- 3) Disposable laboratory dish (φ=60mm)
- 4) Scalpel
- 5) Forceps

## ■ Precautions

- 1) For research use only.
- 2) For best results, strict adherence to these instructions is required.
- 3) Do not open or remove test kit from their individually sealed pouches until immediately before their use.
- 4) Do not use the test kit if the pouch is damaged or the seal is broken.
- 5) Do not reuse test kit.
- 6) All reagents must be at room temperature before running the assay.
- 7) Do not use reagents beyond the stated expiration date marked on the package label.

## ■ Storage and Stability

The kit can be stored at room temperature (2~30℃) or refrigerated.

The test kit is stable through the expiration date marked on the Package label. **DO NOT FREEZE.** Do not store the test kit in direct sunlight.

## ■ Procedure of the test

Specimen Collection and preparation, and test procedure are shown in an attached sheet.

- 1) Put a medaka into an ice-cold water bath for about 1 minute (see picture 2 &3).

- 2) Hold immobilized medaka in your left hand and cut a ventral portion of the fin with a scalpel on the cover of a 60mm laboratory dish (see picture 4&5).
- 3) Immediately the cut body is touched on the sample hole. Hold the body (count to ten) for absorbing the blood into the cotton of the sample hole (see picture 6&7)
- 4) Add 100 μL of PBS into the sample hole (see picture 8).
- 5) As the test begins to work, you will see red color move across the result window in the center of the test device.
- 6) Interpret test results at **10 minutes**.

## ■ Interpretation of the test

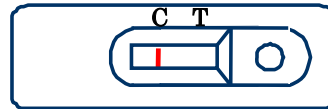
A color band will appear in the left section of the result window to show that the test is working properly. This band is the control band.

The right section of the result window indicates the test results. If another color band appears in the right section of the result window.

This band is the test band.

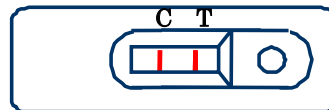
### 1) Negative result

The presence of only one band within the result window indicates a negative result.



### 2) Positive result

The presence of two color bands (“T” and “C”) within the result window, no matter which band appears first indicates a positive result.



### 3) Invalid Result

If the purple color band is not visible within the result window after performing the test, the result is considered invalid. The directions may not have been followed correctly or the test may have deteriorated. It is recommended that the specimen be re-tested.



## ■ Semi quantitative assay

Semi quantitative determination of vitellogenin concentrations in medaka blood is shown in the chart of the attached sheet

## Distributor



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TOYO EKIMAE BLDG. 2-20, TOYO 2CHOME  
KOTO-KU, TOKYO 135-0016, JAPAN  
TEL : +81-3-5632-9617  
FAX : +81-3-5632-9618