



User's Manual

Malachite Green ELISA Kit



DEIA057



96T



This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

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PRODUCT INFORMATION

Intended Use

This kit can be used in quantitative and qualitative analysis of malachite green residue in animal tissue (fish and shrimp), water etc.

General Description

Malachite green is an organic compound that is used as a dyestuff and has emerged as a controversial agent in aquaculture. Fishes and shrimp contaminated by malachite green may cause health problems in human after being consumed. Strict MRLs have been established against malachite green in EU, US and Japan, etc.

This kit is a new product based on ELISA technology, which is fast (only 45min in one operation), easy, accurate and sensitive compared with common instrumental analysis, and so it can considerably minimize operation error and work intensity.

Principles of Testing

This ELISA kit is designed to detect malachite green based on the principle of "indirect-competitive" ELISA. The microtiter wells are coated with capture BSA-linked antigen. Malachite green in the sample competes with the antigen for binding to the limited number of antibody. After the addition of enzyme conjugate and TMB substrate, the signal is measured in an ELISA photometer. The absorption is inversely proportional to the malachite green concentration in the sample.

Reagents And Materials Provided

Microtiter plate with 96 wells coated with antigen

Malachite green standard solutions (5X1ml/bottle) 0ppb, 0.02ppb, 0.06ppb, 0.12ppb, 0.24ppb

Concentrated Enzyme conjugate 0.7ml

Enzyme conjugate diluent 7ml

Substrate solution A 7ml

Substrate solution B 7ml

Stop solution 7ml

Extraction solution 100ml

Malachite green extraction buffer 10ml

Malachite green oxidant 5ml

Polystyrene Centrifuge tube 15ml (60 pcs)

Polystyrene Centrifuge tube: 10ml (60pcs)

Storage

Storage condition: 2-8°C.

Storage period: 12 months.

Precision

Variation coefficient of the ELISA kit is less than 10%.

Detection Limit

Tissue (fish, shrimp): 0.12ppb

Water: 0.2ppb

Sensitivity

0.02ppb