

Product information

Product name: Malachite green ELISA-Test Kit

Product number: EM-2

General Description: Malachite green, also called aniline green, is a toxic chemical primarily used as a dye. When diluted, it can be used as a topical antiseptic or to treat parasites, fungal infections, and bacterial infections in fish and fish eggs. It is also used as a bacteriological stain. However, in 1992 in Canada, it was determined that there is a significant health risk to humans who eat fish contaminated with malachite green.

Principle: The GreenSpring™ Malachite Green ELISA test kit is based on the competitive enzyme immunoassay for the detection of malachite Green in the sample. The coupling antigen is pre-coated on the micro-well stripes. The malachite green residues in the samples compete with the coupling antigen pre-coated on the micro-well stripes for the antibody against malachite green. After the addition of the enzyme conjugate, the TMB substrate is added for coloration. The optical density (OD) value of the sample has a negative correlation with the content of Malachite Green residues in the sample. This value is compared to the standard curve and the content of the corresponding Malachite Green residues is subsequently obtained.

Specifications

Format: 96 wells/kit (12 strips with 8 removable wells each)

Sensitivity: 0.01 ppb

Detection limit: shrimp, fish – 0.05 ppb

Crossreaction rate: Malachite Green 100%, Negative Malachite Green <1%, Crystal purple 120%, Negative crystal purple <0.1%

Sample processing time: shrimp, fish - 20 min.

Detection time: 80 min.

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