

## Product information

**Product name:** Melamine ELISA-Test Kit

**Product number:** EM-1

**General Description:** Melamine is an organic base and a trimer of cyanamide. Like cyanamide, it contains 66% nitrogen by mass and, if mixed with resins, has fire retardant properties due to its release of nitrogen gas when burned or charred, and has several other industrial uses. Melamine is also a metabolite of cyromazine, a pesticide. It is formed in the body of mammals who have ingested cyromazine. It has been reported that cyromazine can also be converted to melamine in plants. Melamine is sometimes illegally added to food products in order to increase the apparent protein content.

**Principle:** The Melamine ELISA-Test Kit is a competitive enzyme-labelled immunoassay. Melamine is extracted from a sample by blending or shaking with extraction solution. The Melamine HRP conjugate, sample extract and calibrators are pipetted into the test wells coated with Melamine antibody to initiate the reaction. During the 30 minute incubation period, Melamine from the sample and Melamine HRP conjugate compete for binding to Melamine antibody. Following this 30 minute incubation, the contents of the well are removed and the wells are washed to remove any unbound Melamine, and Melamine HRP conjugate. After wash with laboratory grade water, a clear substrate is then added to the wells and any bound enzyme conjugate causes the conversion to a blue colour. Following 30-min incubation, the reaction is stopped and the amount of colour in each well is read. The colour of the unknown samples is compared to the colour of the calibrators and the Melamine concentration of the samples is derived.

## Specifications

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

**Sensitivity:** 15 ppb

**Detection limit:** milk, egg - 300 ppb, tissue -150 ppb, feed - 1500 ppb

**Crossreaction rate:** Melamine - 100%, cyanuric acid - 60%

**Sample processing time:** milk, tissue, egg - 25min, feed - 50min

**Detection time:** 80 min.

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