

# Milk II Alert ELISA Kit

Enzyme immunoassay system for the quantitative detection of caseins ( $\alpha$ ,  $\beta$ ,  $\kappa$ ) in food products

Code: IC-02-1102 / 48 test

IC-02-1103 / 96 test



## Intended use

**Milk II Alert ELISA kit** is intended to be used for the quantitative detection of milk ( $\alpha$ ,  $\beta$  and  $\kappa$  caseins) in food products by means of ELISA.

The system uses polyclonal antibodies against  $\alpha$ ,  $\beta$  and  $\kappa$  caseins

## Key features

High sensitivity: 0.25 ppm of caseins in food matrix

Flexibility: 48/96 test format

Quantitative

Ready to use standards

Complying with UNI EN 15633-1 (April 2009)

Proficiency Tests: • FAPAS Proficiency Test 2763 July 2009: **“Casein in Infant Soya Formula”**

• DLA 01/2010 **“Allergens I: Egg and Milk (casein) in sausage”**

## Specifications

<b>Samples</b>	bakery products, cereals and derivatives, dairy and soy products, sauces, fruit juices, wines and vinegars, infant food, cooked ham, poly-phenols containing matrices.
<b>ELISA</b>	competitive indirect system
<b>Antibodies</b>	polyclonal
<b>Units of measurement</b>	skim milk powder / milk / caseins
<b>Limit of Detection (LOD)</b>	approx. 0.25 mg of caseins per kg of food sample (ppm) equivalent to 1 mg of skim milk powder per kg of food sample
<b>Quantification range</b>	0.5-7.5 mg of caseins per kg of food sample equivalent to 2 -30 mg of skim milk powder per kg of food sample
<b>Calibration Curve</b>	number of standards 5 (30-18-6-1-0 ppm of skim milk powder)
<b>Detection</b>	microtiter plate spectrophotometer (filter at 450 nm)
<b>Cross Reactivity</b>	weak cross reactivity (0.0006%) against walnut and peanut and (0.001%) against red lentils and mustard <u>no cross reactivity towards milk and soy lecithin and <math>\beta</math>-lactoglobulin from milk whey</u>
<b>Additives</b> (separately sold)	<b>WM Extraction Powder</b> (IC-02-1104) for wines and vinegars <b>MH Extraction Buffer</b> (IC-02-1109) for cooked ham <b>Buffer B Milk</b> (IC-02-1112 / IC-02-1123) for poly-phenols containing matrices