

NO ANALOGUES!

A set of reagents for the determination of β -casein A1
in a cow's milk

MULTISCREEN® β -CASEIN A1 ELISA



Technical support:
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MULTISCREEN® -
manufacturer's trademark

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MULTISCREEN® β -CASEIN A1 ELISA

General

A set of reagents for determining the concentration of β -casein A1 in whole cow's milk, skim milk and powdered reconstituted cow's milk in order to control the quality of milk containing β -casein A2.



Kit contents

Microplate immuno-sorbent coated with antibodies to total β -casein	1 plate (6 strips with 8 removable wells each)
Dilution buffer	50 ml
Calibration tests	5 pcs
Control samples	2 pcs
Antibodies specific to β -casein A1, 100-fold concentrate	60 μ l
Conjugate dilution solution	7 ml
Conjugate (anti-species antibody, labeled with peroxidase), 100x concentrate	60 μ l
Flushing solution, 10x concentrate	50 ml
Chromogen-substrate solution	3,5 ml
Stop-reagent	7 ml

Standard range (ready-to-use):


Concentration of β -casein A1:
6,3; 12,5; 25,0, 50,0 и 100,0 ng/ml

Antibody cross-reactivity:

The analysis does not cross-react with bovine β -casein A2

Storage:

 Temperature range: 2-8°C

 Don't freeze!

Detection limit (LOD) and range:

For raw, pasteurized, sterilized milk, reconstituted powdered milk

LOD:	0,32 mg/ml
Detection range:	0,32 – 5,00 mg/ml

*when analyzing milk samples obtained by mixing A2 milk from different animals, for example, when milking into a common tank, an increase in the optical density of the mixed sample is possible, which is not associated with contamination of the samples with A1 milk. In this regard, **the sensitivity** of the technique for a mixed sample will be approximately **1.5 mg/ml**.

Sample preparation:

The analyzed milk sample must be diluted with buffer 1: 50,000 in two steps.

Procedure:

Standards, conjugate and samples are pipetted into the wells which are pre-coated with the specific antibody to β -casein. This is incubated for 60 minutes at 20°C – 25°C. After a washing procedure ready-to-use substrate is added and incubated for 60 minutes at 20°C – 25°C. The reaction is stopped and the absorbance is read in a spectrophotometer at 450 nm.

To calculate and interpret the result, use the template attached to the set in *Microsoft Excel* format.